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(54) **Primers for synthesising full-length cDNA and their use**

(57) Primers for synthesizing full-length cDNAs and their use are provided.

5602 cDNA encoding a human protein has been isolated and nucleotide sequences of 5'-, and 3'-ends of the cDNA have been determined. Furthermore, prim-

ers for synthesizing the full-length cDNA have been provided to clarify the function of the protein encoded by the cDNA. The full-length cDNA of the present invention containing the translation start site provides information useful for analyzing the functions of the protein.

**Description****FIELD OF THE INVENTION**

5     **[0001]** The present invention relates to a polynucleotide encoding a novel protein, a protein encoded by the polynucleotide, and new uses of these.

**BACKGROUND OF THE INVENTION**

10     **[0002]** Currently, the sequencing projects, the determination and analysis of the genomic DNA of various living organisms have been in progress all over the world. The whole genomic sequences of more than 10 species of prokaryotes, a lower eukaryote, yeast, and a multicellular eukaryote, *C. elegans* are already determined. As to human genome, which is supposed to be composed of three thousand million base pairs, the world wide cooperative projects have been under way to analyze it, and the whole structure is predicted to be determined by the years 2002-2003. The aim of the determination of genomic sequence is to reveal the functions of all genes and their regulation and to understand living organisms as a network of interactions between genes, proteins, cells or individuals through deducing the information in a genome, which is a blueprint of the highly complicated living organisms. To understand living organisms by utilizing the genomic information from various species is not only important as an academic subject, but also socially significant from the viewpoint of industrial application.

20     **[0003]** However, determination of genomic sequences itself cannot identify the functions of all genes. For example, as for yeast, only the function of approximately half of the 6000 genes, which is predicted based on the genomic sequence, was able to be deduced. As for human, the number of the genes is predicted to be approximately one hundred thousand. Therefore, it is desirable to establish "a high throughput analysis system of the gene functions" which allows us to identify rapidly and efficiently the functions of vast amounts of the genes obtained by the genomic sequencing.

25     **[0004]** Many genes in the eukaryotic genome are split by introns into multiple exons. Thus, it is difficult to predict correctly the structure of encoded protein solely based on genomic information. In contrast, cDNA, which is produced from mRNA that lacks introns, encodes a protein as a single continuous amino acid sequence and allows us to identify the primary structure of the protein easily. In human cDNA research, to date, more than one million ESTs (Expression Sequence Tags) are publicly available, and the ESTs presumably cover not less than 80% of all human genes.

30     **[0005]** The information of ESTs is utilized for analyzing the structure of human genome, or for predicting the exons of genomic sequences or their expression profile. However, many human ESTs have been derived from proximal regions to the 3'-end of cDNA, and information around the 5'-end of mRNA is extremely little. Among these human cDNAs, the number of the corresponding mRNAs whose encoding protein sequences are deduced is approximately 7000, and further, the number of full-length therein is only 5500. Thus, even including cDNA registered as EST, the percentage of human cDNA obtained so far is estimated to be 10-15% of all the genes.

35     **[0006]** It is possible to identify the transcription start site of mRNA on the genomic sequence based on the 5'-end sequence of a full-length cDNA, and to analyze factors involved in the stability of mRNA that is contained in the cDNA, or in its regulation of expression at the translation stage. Also, since a full-length cDNA contains ATG, the translation start site, in the 5'-region, it can be translated into a protein in a correct frame. Therefore, it is possible to produce a large amount of the protein encoded by the cDNA or to analyze biological activity of the expressed protein by utilizing an appropriate expression system. Thus, analysis of a full-length cDNA provides valuable information which complements the information from genome sequencing. Also, full-length cDNA clones that can be expressed are extremely valuable in empirical analysis of gene function and in industrial application.

40     **[0007]** Therefore, if a novel human full-length cDNA is isolated, it can be used for developing medicines for diseases in which the gene is involved. The protein encoded by the gene can be used as a drug by itself. Thus, it has great significance to obtain a full-length cDNA encoding a novel human protein.

45     **[0008]** In particular, human secretory proteins or membrane proteins would be useful by itself as a medicine like tissue plasminogen activator (TPA), or as a target of medicines like membrane receptors. In addition, genes for signal transduction-associated proteins (protein kinases, etc.), glycoprotein-associated proteins, transcription-associated proteins, etc. are genes whose relationships to human diseases have been elucidated. Moreover, genes for disease-associated proteins form a gene group rich in genes whose relationships to human diseases have been elucidated.

50     **[0009]** Therefore, it has great significance to isolate novel full-length cDNA clones of human, only few of which has been isolated. Especially, isolation of a novel cDNA clone encoding a secretory protein or membrane protein is desired since the protein itself would be useful as a medicine, and also the clones potentially include a gene associated with diseases. In addition, genes encoding proteins that are associated with signal transduction, glycoprotein, transcription, or diseases are expected to be useful as target molecules for therapy, or as medicines themselves. These genes form a gene group predicted to be strongly associated with diseases. Thus, identification of the full-length cDNA clones

encoding those proteins has great significance.

#### SUMMARY OF THE INVENTION

**[0010]** An objective of the present invention is to provide a polynucleotide encoding a novel protein, a protein encoded by said polynucleotide, and novel usages of these.

**[0011]** The inventors have developed a method for efficiently cloning a human full-length cDNA that is predicted by the ATGpr etc. to be a full-length cDNA clone, from a full-length-enriched cDNA library that is synthesized by the oligo-capping method. Then, the inventors determined the nucleotide sequence of the obtained cDNA clones from both 5'- and 3'- ends.

**[0012]** Furthermore, the inventors analyzed the obtained clones by the BLAST search of the databases, SwissProt ([http://www.ebi.ac.uk/ebi\\_docs/SwissProt\\_db/swisshome.html](http://www.ebi.ac.uk/ebi_docs/SwissProt_db/swisshome.html)), GenBank (<http://www.ncbi.nlm.nih.gov/web/GenBank>), and UniGene (Human) (<http://www.ncbi.nlm.nih.gov/UniGene>).

**[0013]** The full-length cDNA clones of the present invention have high fullness ratio since these were obtained by the combination of (1) construction of a full-length-enriched cDNA library that is synthesized by the oligo-capping method, and (2) a system in which the full-length ratio is evaluated from the nucleotide sequence of the 5'-end (selection based on the ATGpr, previously removed complete sequences to ESTs). However, the primer of the present invention enables to obtain full-length cDNA easily without any specialized methods as in the described method.

Homology analysis in which the analysis is carried out against a not-full-length cDNA fragment to postulate the function of a protein encoded by said fragment, is being commonly performed.

However, since such analysis is based on the information of the fragment, it is not clear as to whether this fragment corresponds to a part that is functionally important in the protein. In other words, the reliability of the homology analysis based on the information of a fragment is doubtful, as information related to the structure of the whole protein is not available. However, the homology analysis of the present invention is conducted based on the information of a full-length cDNA comprising the whole coding region of the cDNA, and therefore, the homology of various portions of the protein can be analyzed. Hence, the reliability of the homology analysis has been dramatically improved in the present invention.

**[0014]** The inventors completed the invention by finding that it is possible to synthesize a novel full-length cDNA by using the combination of a primer that is designed based on the nucleotide sequence of the 5'-ends of the selected full-length cDNA clones and any of an oligo-dT primer or a 3'-primer that is designed based on the nucleotide sequence of the 3'-ends of the selected clones.

**[0015]** Thus, the present invention relates to primers described below, a method for synthesizing a polynucleotide using the primers, and polynucleotides obtained by the method.

**[0016]** First, the present invention relates to

(1) use of an oligonucleotide as a primer for synthesizing the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, or the complementary strand thereof, wherein said oligonucleotide is complementary to said polynucleotide or the complementary strand thereof and comprises at least 15 nucleotides;

(2) a primer set for synthesizing polynucleotides, the primer set comprising an oligo-dT primer and an oligonucleotide complementary to the complementary strand of the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, wherein said oligonucleotide comprises at least 15 nucleotides; and

(3) a primer set for synthesizing polynucleotides, the primer set comprising a combination of an oligonucleotide comprising a nucleotide sequence complementary to the complementary strand of the polynucleotide comprising a 5'-end nucleotide sequence and an oligonucleotide comprising a nucleotide sequence complementary to the polynucleotide comprising a 3'-end nucleotide sequence, wherein said oligonucleotides comprise at least 15 nucleotides and wherein said combination of 5'-end nucleotide sequence / 3'-end nucleotide sequence is selected from the combinations of 5'-end nucleotide sequence / 3'-end nucleotide sequence set forth in the SEQ ID NOs in Tables 1 and 2.

**[0017]** Tables 1 and 2 shows names of clones obtained in the examples described later, comprising the polynucleotide of the present invention (Table 1; 5547 clones, Table 2; 54 clones), names of nucleotide sequences at the 5'-end and 3'-end of the full-length cDNA, and their corresponding SEQ ID NOs. A blank indicates that the 3'-end sequence corresponding to the 5'-end sequence has not been determined for the same clone.

**[0018]** The SEQ ID NO of a 5'-end sequence is shown on the right side of the name of the 5'-end sequence, and the SEQ ID NO of a 3'-end sequence is shown on the right side of the name of the 3'-end sequence.

Table 1

|    | name of<br>clone | name of<br>5'-end<br>sequence | SEQ ID<br>of 5'-end<br>sequence | name of<br>3'-end<br>sequence | SEQ ID<br>of 3'-end<br>sequence |
|----|------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|
| 5  |                  |                               |                                 |                               |                                 |
| 10 | HEMBA1000005     | F-HEMBA1000005                | 1                               | R-HEMBA1000005                | 5548                            |
|    | HEMBA1000012     | F-HEMBA1000012                | 2                               |                               |                                 |
|    | HEMBA1000020     | F-HEMBA1000020                | 3                               |                               |                                 |
| 15 | HEMBA1000030     | F-HEMBA1000030                | 4                               | R-HEMBA1000030                | 5549                            |
|    | HEMBA1000042     | F-HEMBA1000042                | 5                               | R-HEMBA1000042                | 5550                            |
|    | HEMBA1000046     | F-HEMBA1000046                | 6                               | R-HEMBA1000046                | 5551                            |
|    | HEMBA1000050     | F-HEMBA1000050                | 7                               | R-HEMBA1000050                | 5552                            |
| 20 | HEMBA1000076     | F-HEMBA1000076                | 8                               | R-HEMBA1000076                | 5553                            |
|    | HEMBA1000111     | F-HEMBA1000111                | 9                               | R-HEMBA1000111                | 5554                            |
|    | HEMBA1000129     | F-HEMBA1000129                | 10                              | R-HEMBA1000129                | 5555                            |
|    | HEMBA1000141     | F-HEMBA1000141                | 11                              | R-HEMBA1000141                | 5556                            |
| 25 | HEMBA1000150     | F-HEMBA1000150                | 12                              | R-HEMBA1000150                | 5557                            |
|    | HEMBA1000156     | F-HEMBA1000156                | 13                              | R-nnnnnnnnnnnnn               | 5558                            |
|    | HEMBA1000158     | F-HEMBA1000158                | 14                              | R-HEMBA1000158                | 5559                            |
| 30 | HEMBA1000168     | F-HEMBA1000168                | 15                              | R-nnnnnnnnnnnnn               | 5560                            |

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|    |              |                |    |                 |      |
|----|--------------|----------------|----|-----------------|------|
|    | HEMBA1000180 | F-HEMBA1000180 | 16 | R-HEMBA1000180  | 5561 |
|    | HEMBA1000185 | F-HEMBA1000185 | 17 | R-HEMBA1000185  | 5562 |
|    | HEMBA1000193 | F-HEMBA1000193 | 18 | R-HEMBA1000193  | 5563 |
| 5  | HEMBA1000201 | F-HEMBA1000201 | 19 | R-HEMBA1000201  | 5564 |
|    | HEMBA1000213 | F-HEMBA1000213 | 20 | R-HEMBA1000213  | 5565 |
|    | HEMBA1000216 | F-HEMBA1000216 | 21 | R-HEMBA1000216  | 5566 |
|    | HEMBA1000227 | F-HEMBA1000227 | 22 | R-nnnnnnnnnnnnn | 5567 |
| 10 | HEMBA1000231 | F-HEMBA1000231 | 23 | R-HEMBA1000231  | 5568 |
|    | HEMBA1000243 | F-HEMBA1000243 | 24 | R-HEMBA1000243  | 5569 |
|    | HEMBA1000244 | F-HEMBA1000244 | 25 | R-HEMBA1000244  | 5570 |
|    | HEMBA1000251 | F-HEMBA1000251 | 26 | R-HEMBA1000251  | 5571 |
| 15 | HEMBA1000264 | F-HEMBA1000264 | 27 | R-HEMBA1000264  | 5572 |
|    | HEMBA1000280 | F-HEMBA1000280 | 28 | R-nnnnnnnnnnnnn | 5573 |
|    | HEMBA1000282 | F-HEMBA1000282 | 29 | R-HEMBA1000282  | 5574 |
|    | HEMBA1000288 | F-HEMBA1000288 | 30 | R-HEMBA1000288  | 5575 |
| 20 | HEMBA1000290 | F-HEMBA1000290 | 31 | R-HEMBA1000290  | 5576 |
|    | HEMBA1000302 | F-HEMBA1000302 | 32 | R-HEMBA1000302  | 5577 |
|    | HEMBA1000303 | F-HEMBA1000303 | 33 | R-nnnnnnnnnnnnn | 5578 |
|    | HEMBA1000304 | F-HEMBA1000304 | 34 | R-nnnnnnnnnnnnn | 5579 |
|    | HEMBA1000307 | F-HEMBA1000307 | 35 | R-HEMBA1000307  | 5580 |
| 25 | HEMBA1000327 | F-HEMBA1000327 | 36 |                 |      |
|    | HEMBA1000333 | F-HEMBA1000333 | 37 | R-nnnnnnnnnnnnn | 5581 |
|    | HEMBA1000338 | F-HEMBA1000338 | 38 | R-HEMBA1000338  | 5582 |
|    | HEMBA1000351 | F-HEMBA1000351 | 39 | R-HEMBA1000351  | 5583 |
| 30 | HEMBA1000355 | F-HEMBA1000355 | 40 | R-HEMBA1000355  | 5584 |
|    | HEMBA1000356 | F-HEMBA1000356 | 41 |                 |      |
|    | HEMBA1000357 | F-HEMBA1000357 | 42 | R-HEMBA1000357  | 5585 |
|    | HEMBA1000366 | F-HEMBA1000366 | 43 | R-HEMBA1000366  | 5586 |
| 35 | HEMBA1000369 | F-HEMBA1000369 | 44 | R-HEMBA1000369  | 5587 |
|    | HEMBA1000376 | F-HEMBA1000376 | 45 | R-HEMBA1000376  | 5588 |
|    | HEMBA1000387 | F-HEMBA1000387 | 46 | R-HEMBA1000387  | 5589 |
|    | HEMBA1000390 | F-HEMBA1000390 | 47 | R-HEMBA1000390  | 5590 |
| 40 | HEMBA1000392 | F-HEMBA1000392 | 48 | R-HEMBA1000392  | 5591 |
|    | HEMBA1000396 | F-HEMBA1000396 | 49 | R-HEMBA1000396  | 5592 |
|    | HEMBA1000411 | F-HEMBA1000411 | 50 | R-HEMBA1000411  | 5593 |
|    | HEMBA1000418 | F-HEMBA1000418 | 51 | R-HEMBA1000418  | 5594 |
| 45 | HEMBA1000422 | F-HEMBA1000422 | 52 | R-HEMBA1000422  | 5595 |
|    | HEMBA1000428 | F-HEMBA1000428 | 53 | R-HEMBA1000428  | 5596 |
|    | HEMBA1000434 | F-HEMBA1000434 | 54 | R-HEMBA1000434  | 5597 |
|    | HEMBA1000442 | F-HEMBA1000442 | 55 | R-HEMBA1000442  | 5598 |
| 50 | HEMBA1000456 | F-HEMBA1000456 | 56 | R-HEMBA1000456  | 5599 |
|    | HEMBA1000459 | F-HEMBA1000459 | 57 | R-HEMBA1000459  | 5600 |
|    | HEMBA1000460 | F-HEMBA1000460 | 58 | R-HEMBA1000460  | 5601 |
|    | HEMBA1000464 | F-HEMBA1000464 | 59 | R-HEMBA1000464  | 5602 |
|    | HEMBA1000469 | F-HEMBA1000469 | 60 | R-HEMBA1000469  | 5603 |
| 55 | HEMBA1000488 | F-HEMBA1000488 | 61 | R-HEMBA1000488  | 5604 |

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|----|--------------|----------------|-----|-----------------|------|
|    | HEMBA1000490 | F-HEMBA1000490 | 62  | R-HEMBA1000490  | 5605 |
|    | HEMBA1000491 | F-HEMBA1000491 | 63  | R-HEMBA1000491  | 5606 |
| 5  | HEMBA1000501 | F-HEMBA1000501 | 64  |                 |      |
|    | HEMBA1000504 | F-HEMBA1000504 | 65  | R-HEMBA1000504  | 5607 |
|    | HEMBA1000505 | F-HEMBA1000505 | 66  | R-HEMBA1000505  | 5608 |
|    | HEMBA1000508 | F-HEMBA1000508 | 67  | R-HEMBA1000508  | 5609 |
|    | HEMBA1000518 | F-HEMBA1000518 | 68  | R-HEMBA1000518  | 5610 |
| 10 | HEMBA1000519 | F-HEMBA1000519 | 69  | R-HEMBA1000519  | 5611 |
|    | HEMBA1000520 | F-HEMBA1000520 | 70  | R-HEMBA1000520  | 5612 |
|    | HEMBA1000523 | F-HEMBA1000523 | 71  | R-HEMBA1000523  | 5613 |
|    | HEMBA1000531 | F-HEMBA1000531 | 72  | R-HEMBA1000531  | 5614 |
| 15 | HEMBA1000534 | F-HEMBA1000534 | 73  |                 |      |
|    | HEMBA1000540 | F-HEMBA1000540 | 74  | R-HEMBA1000540  | 5615 |
|    | HEMBA1000542 | F-HEMBA1000542 | 75  |                 |      |
|    | HEMBA1000545 | F-HEMBA1000545 | 76  | R-HEMBA1000545  | 5616 |
| 20 | HEMBA1000555 | F-HEMBA1000555 | 77  | R-nnnnnnnnnnnnn | 5617 |
|    | HEMBA1000557 | F-HEMBA1000557 | 78  | R-HEMBA1000557  | 5618 |
|    | HEMBA1000561 | F-HEMBA1000561 | 79  | R-HEMBA1000561  | 5619 |
|    | HEMBA1000563 | F-HEMBA1000563 | 80  | R-HEMBA1000563  | 5620 |
| 25 | HEMBA1000568 | F-HEMBA1000568 | 81  | R-HEMBA1000568  | 5621 |
|    | HEMBA1000569 | F-HEMBA1000569 | 82  | R-nnnnnnnnnnnnn | 5622 |
|    | HEMBA1000575 | F-HEMBA1000575 | 83  | R-HEMBA1000575  | 5623 |
|    | HEMBA1000588 | F-HEMBA1000588 | 84  | R-HEMBA1000588  | 5624 |
| 30 | HEMBA1000591 | F-HEMBA1000591 | 85  | R-HEMBA1000591  | 5625 |
|    | HEMBA1000592 | F-HEMBA1000592 | 86  | R-HEMBA1000592  | 5626 |
|    | HEMBA1000594 | F-HEMBA1000594 | 87  | R-HEMBA1000594  | 5627 |
|    | HEMBA1000604 | F-HEMBA1000604 | 88  | R-HEMBA1000604  | 5628 |
| 35 | HEMBA1000608 | F-HEMBA1000608 | 89  | R-HEMBA1000608  | 5629 |
|    | HEMBA1000622 | F-HEMBA1000622 | 90  | R-HEMBA1000622  | 5630 |
|    | HEMBA1000636 | F-HEMBA1000636 | 91  | R-HEMBA1000636  | 5631 |
|    | HEMBA1000637 | F-HEMBA1000637 | 92  | R-HEMBA1000637  | 5632 |
| 40 | HEMBA1000655 | F-HEMBA1000655 | 93  | R-HEMBA1000655  | 5633 |
|    | HEMBA1000657 | F-HEMBA1000657 | 94  | R-HEMBA1000657  | 5634 |
|    | HEMBA1000662 | F-HEMBA1000662 | 95  | R-HEMBA1000662  | 5635 |
|    | HEMBA1000673 | F-HEMBA1000673 | 96  | R-HEMBA1000673  | 5636 |
|    | HEMBA1000682 | F-HEMBA1000682 | 97  | R-HEMBA1000682  | 5637 |
| 45 | HEMBA1000686 | F-HEMBA1000686 | 98  | R-HEMBA1000686  | 5638 |
|    | HEMBA1000702 | F-HEMBA1000702 | 99  | R-HEMBA1000702  | 5639 |
|    | HEMBA1000705 | F-HEMBA1000705 | 100 | R-HEMBA1000705  | 5640 |
|    | HEMBA1000719 | F-HEMBA1000719 | 101 | R-HEMBA1000719  | 5641 |
| 50 | HEMBA1000722 | F-HEMBA1000722 | 102 | R-HEMBA1000722  | 5642 |
|    | HEMBA1000726 | F-HEMBA1000726 | 103 | R-HEMBA1000726  | 5643 |
|    | HEMBA1000727 | F-HEMBA1000727 | 104 | R-HEMBA1000727  | 5644 |
|    | HEMBA1000747 | F-HEMBA1000747 | 105 | R-HEMBA1000747  | 5645 |
|    | HEMBA1000749 | F-HEMBA1000749 | 106 | R-HEMBA1000749  | 5646 |
| 55 | HEMBA1000752 | F-HEMBA1000752 | 107 | R-HEMBA1000752  | 5647 |

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|    |              |                |     |                 |      |
|----|--------------|----------------|-----|-----------------|------|
|    | HEMBA1000769 | F-HEMBA1000769 | 108 | R-HEMBA1000769  | 5648 |
|    | HEMBA1000773 | F-HEMBA1000773 | 109 | R-HEMBA1000773  | 5649 |
|    | HEMBA1000774 | F-HEMBA1000774 | 110 | R-HEMBA1000774  | 5650 |
| 5  | HEMBA1000791 | F-HEMBA1000791 | 111 | R-HEMBA1000791  | 5651 |
|    | HEMBA1000817 | F-HEMBA1000817 | 112 | R-HEMBA1000817  | 5652 |
|    | HEMBA1000822 | F-HEMBA1000822 | 113 | R-HEMBA1000822  | 5653 |
|    | HEMBA1000827 | F-HEMBA1000827 | 114 | R-HEMBA1000827  | 5654 |
| 10 | HEMBA1000843 | F-HEMBA1000843 | 115 | R-HEMBA1000843  | 5655 |
|    | HEMBA1000851 | F-HEMBA1000851 | 116 | R-HEMBA1000851  | 5656 |
|    | HEMBA1000852 | F-HEMBA1000852 | 117 | R-HEMBA1000852  | 5657 |
|    | HEMBA1000867 | F-HEMBA1000867 | 118 | R-HEMBA1000867  | 5658 |
| 15 | HEMBA1000869 | F-HEMBA1000869 | 119 | R-HEMBA1000869  | 5659 |
|    | HEMBA1000870 | F-HEMBA1000870 | 120 | R-HEMBA1000870  | 5660 |
|    | HEMBA1000872 | F-HEMBA1000872 | 121 | R-HEMBA1000872  | 5661 |
|    | HEMBA1000876 | F-HEMBA1000876 | 122 | R-HEMBA1000876  | 5662 |
| 20 | HEMBA1000908 | F-HEMBA1000908 | 123 | R-HEMBA1000908  | 5663 |
|    | HEMBA1000910 | F-HEMBA1000910 | 124 | R-HEMBA1000910  | 5664 |
|    | HEMBA1000918 | F-HEMBA1000918 | 125 | R-HEMBA1000918  | 5665 |
|    | HEMBA1000919 | F-HEMBA1000919 | 126 | R-HEMBA1000919  | 5666 |
| 25 | HEMBA1000934 | F-HEMBA1000934 | 127 | R-HEMBA1000934  | 5667 |
|    | HEMBA1000942 | F-HEMBA1000942 | 128 | R-HEMBA1000942  | 5668 |
|    | HEMBA1000943 | F-HEMBA1000943 | 129 | R-HEMBA1000943  | 5669 |
|    | HEMBA1000946 | F-HEMBA1000946 | 130 | R-HEMBA1000946  | 5670 |
| 30 | HEMBA1000960 | F-HEMBA1000960 | 131 | R-HEMBA1000960  | 5671 |
|    | HEMBA1000968 | F-HEMBA1000968 | 132 | R-HEMBA1000968  | 5672 |
|    | HEMBA1000971 | F-HEMBA1000971 | 133 | R-HEMBA1000971  | 5673 |
|    | HEMBA1000972 | F-HEMBA1000972 | 134 | R-HEMBA1000972  | 5674 |
|    | HEMBA1000974 | F-HEMBA1000974 | 135 | R-HEMBA1000974  | 5675 |
| 35 | HEMBA1000975 | F-HEMBA1000975 | 136 | R-HEMBA1000975  | 5676 |
|    | HEMBA1000985 | F-HEMBA1000985 | 137 | R-HEMBA1000985  | 5677 |
|    | HEMBA1000986 | F-HEMBA1000986 | 138 | R-HEMBA1000986  | 5678 |
|    | HEMBA1000991 | F-HEMBA1000991 | 139 | R-HEMBA1000991  | 5679 |
| 40 | HEMBA1001007 | F-HEMBA1001007 | 140 | R-HEMBA1001007  | 5680 |
|    | HEMBA1001008 | F-HEMBA1001008 | 141 | R-HEMBA1001008  | 5681 |
|    | HEMBA1001009 | F-HEMBA1001009 | 142 | R-HEMBA1001009  | 5682 |
|    | HEMBA1001017 | F-HEMBA1001017 | 143 | R-HEMBA1001017  | 5683 |
| 45 | HEMBA1001019 | F-HEMBA1001019 | 144 | R-HEMBA1001019  | 5684 |
|    | HEMBA1001020 | F-HEMBA1001020 | 145 | R-HEMBA1001020  | 5685 |
|    | HEMBA1001022 | F-HEMBA1001022 | 146 | R-HEMBA1001022  | 5686 |
|    | HEMBA1001024 | F-HEMBA1001024 | 147 | R-HEMBA1001024  | 5687 |
| 50 | HEMBA1001026 | F-HEMBA1001026 | 148 | R-HEMBA1001026  | 5688 |
|    | HEMBA1001043 | F-HEMBA1001043 | 149 | R-nnnnnnnnnnnnn | 5689 |
|    | HEMBA1001051 | F-HEMBA1001051 | 150 | R-HEMBA1001051  | 5690 |
|    | HEMBA1001052 | F-HEMBA1001052 | 151 | R-HEMBA1001052  | 5691 |
|    | HEMBA1001059 | F-HEMBA1001059 | 152 |                 |      |
| 55 | HEMBA1001060 | F-HEMBA1001060 | 153 | R-HEMBA1001060  | 5692 |

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|----|--------------|----------------|-----|-----------------|------|
|    | HEMBA1001071 | F-HEMBA1001071 | 154 | R-HEMBA1001071  | 5693 |
|    | HEMBA1001077 | F-HEMBA1001077 | 155 | R-HEMBA1001077  | 5694 |
|    | HEMBA1001080 | F-HEMBA1001080 | 156 | R-HEMBA1001080  | 5695 |
| 5  | HEMBA1001085 | F-HEMBA1001085 | 157 | R-HEMBA1001085  | 5696 |
|    | HEMBA1001088 | F-HEMBA1001088 | 158 | R-HEMBA1001088  | 5697 |
|    | HEMBA1001094 | F-HEMBA1001094 | 159 | R-HEMBA1001094  | 5698 |
|    | HEMBA1001099 | F-HEMBA1001099 | 160 | R-HEMBA1001099  | 5699 |
| 10 | HEMBA1001109 | F-HEMBA1001109 | 161 | R-HEMBA1001109  | 5700 |
|    | HEMBA1001121 | F-HEMBA1001121 | 162 | R-HEMBA1001121  | 5701 |
|    | HEMBA1001122 | F-HEMBA1001122 | 163 | R-HEMBA1001122  | 5702 |
|    | HEMBA1001123 | F-HEMBA1001123 | 164 | R-HEMBA1001123  | 5703 |
| 15 | HEMBA1001133 | F-HEMBA1001133 | 165 | R-HEMBA1001133  | 5704 |
|    | HEMBA1001137 | F-HEMBA1001137 | 166 | R-HEMBA1001137  | 5705 |
|    | HEMBA1001140 | F-HEMBA1001140 | 167 | R-HEMBA1001140  | 5706 |
|    | HEMBA1001172 | F-HEMBA1001172 | 168 | R-HEMBA1001172  | 5707 |
| 20 | HEMBA1001174 | F-HEMBA1001174 | 169 | R-HEMBA1001174  | 5708 |
|    | HEMBA1001197 | F-HEMBA1001197 | 170 | R-HEMBA1001197  | 5709 |
|    | HEMBA1001208 | F-HEMBA1001208 | 171 | R-HEMBA1001208  | 5710 |
|    | HEMBA1001213 | F-HEMBA1001213 | 172 |                 |      |
| 25 | HEMBA1001226 | F-HEMBA1001226 | 173 | R-HEMBA1001226  | 5711 |
|    | HEMBA1001235 | F-HEMBA1001235 | 174 | R-HEMBA1001235  | 5712 |
|    | HEMBA1001247 | F-HEMBA1001247 | 175 | R-HEMBA1001247  | 5713 |
|    | HEMBA1001257 | F-HEMBA1001257 | 176 | R-HEMBA1001257  | 5714 |
|    | HEMBA1001265 | F-HEMBA1001265 | 177 | R-HEMBA1001265  | 5715 |
| 30 | HEMBA1001281 | F-HEMBA1001281 | 178 | R-nnnnnnnnnnnnn | 5716 |
|    | HEMBA1001286 | F-HEMBA1001286 | 179 | R-HEMBA1001286  | 5717 |
|    | HEMBA1001289 | F-HEMBA1001289 | 180 | R-HEMBA1001289  | 5718 |
|    | HEMBA1001294 | F-HEMBA1001294 | 181 | R-HEMBA1001294  | 5719 |
| 35 | HEMBA1001299 | F-HEMBA1001299 | 182 | R-HEMBA1001299  | 5720 |
|    | HEMBA1001302 | F-HEMBA1001302 | 183 | R-HEMBA1001302  | 5721 |
|    | HEMBA1001303 | F-HEMBA1001303 | 184 | R-HEMBA1001303  | 5722 |
|    | HEMBA1001310 | F-HEMBA1001310 | 185 | R-HEMBA1001310  | 5723 |
| 40 | HEMBA1001319 | F-HEMBA1001319 | 186 | R-HEMBA1001319  | 5724 |
|    | HEMBA1001323 | F-HEMBA1001323 | 187 | R-HEMBA1001323  | 5725 |
|    | HEMBA1001326 | F-HEMBA1001326 | 188 | R-HEMBA1001326  | 5726 |
|    | HEMBA1001327 | F-HEMBA1001327 | 189 | R-HEMBA1001327  | 5727 |
| 45 | HEMBA1001330 | F-HEMBA1001330 | 190 | R-HEMBA1001330  | 5728 |
|    | HEMBA1001351 | F-HEMBA1001351 | 191 | R-HEMBA1001351  | 5729 |
|    | HEMBA1001361 | F-HEMBA1001361 | 192 | R-HEMBA1001361  | 5730 |
|    | HEMBA1001375 | F-HEMBA1001375 | 193 | R-HEMBA1001375  | 5731 |
|    | HEMBA1001377 | F-HEMBA1001377 | 194 | R-HEMBA1001377  | 5732 |
| 50 | HEMBA1001383 | F-HEMBA1001383 | 195 | R-HEMBA1001383  | 5733 |
|    | HEMBA1001387 | F-HEMBA1001387 | 196 | R-HEMBA1001387  | 5734 |
|    | HEMBA1001388 | F-HEMBA1001388 | 197 | R-HEMBA1001388  | 5735 |
|    | HEMBA1001391 | F-HEMBA1001391 | 198 | R-HEMBA1001391  | 5736 |
| 55 | HEMBA1001398 | F-HEMBA1001398 | 199 | R-HEMBA1001398  | 5737 |

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|    | HEMBA1001405 | F-HEMBA1001405 | 200 | R-HEMBA1001405  | 5738 |
|    | HEMBA1001407 | F-HEMBA1001407 | 201 | R-HEMBA1001407  | 5739 |
| 5  | HEMBA1001411 | F-HEMBA1001411 | 202 | R-HEMBA1001411  | 5740 |
|    | HEMBA1001413 | F-HEMBA1001413 | 203 | R-HEMBA1001413  | 5741 |
|    | HEMBA1001415 | F-HEMBA1001415 | 204 | R-HEMBA1001415  | 5742 |
|    | HEMBA1001432 | F-HEMBA1001432 | 205 | R-HEMBA1001432  | 5743 |
|    | HEMBA1001433 | F-HEMBA1001433 | 206 | R-HEMBA1001433  | 5744 |
| 10 | HEMBA1001435 | F-HEMBA1001435 | 207 | R-HEMBA1001435  | 5745 |
|    | HEMBA1001442 | F-HEMBA1001442 | 208 | R-HEMBA1001442  | 5746 |
|    | HEMBA1001446 | F-HEMBA1001446 | 209 | R-HEMBA1001446  | 5747 |
|    | HEMBA1001450 | F-HEMBA1001450 | 210 | R-HEMBA1001450  | 5748 |
| 15 | HEMBA1001454 | F-HEMBA1001454 | 211 | R-HEMBA1001454  | 5749 |
|    | HEMBA1001455 | F-HEMBA1001455 | 212 | R-HEMBA1001455  | 5750 |
|    | HEMBA1001463 | F-HEMBA1001463 | 213 | R-HEMBA1001463  | 5751 |
|    | HEMBA1001476 | F-HEMBA1001476 | 214 | R-HEMBA1001476  | 5752 |
| 20 | HEMBA1001478 | F-HEMBA1001478 | 215 | R-HEMBA1001478  | 5753 |
|    | HEMBA1001497 | F-HEMBA1001497 | 216 | R-HEMBA1001497  | 5754 |
|    | HEMBA1001510 | F-HEMBA1001510 | 217 | R-HEMBA1001510  | 5755 |
|    | HEMBA1001515 | F-HEMBA1001515 | 218 | R-HEMBA1001515  | 5756 |
| 25 | HEMBA1001517 | F-HEMBA1001517 | 219 | R-HEMBA1001517  | 5757 |
|    | HEMBA1001522 | F-HEMBA1001522 | 220 | R-HEMBA1001522  | 5758 |
|    | HEMBA1001526 | F-HEMBA1001526 | 221 | R-HEMBA1001526  | 5759 |
|    | HEMBA1001533 | F-HEMBA1001533 | 222 | R-HEMBA1001533  | 5760 |
| 30 | HEMBA1001557 | F-HEMBA1001557 | 223 | R-HEMBA1001557  | 5761 |
|    | HEMBA1001566 | F-HEMBA1001566 | 224 | R-HEMBA1001566  | 5762 |
|    | HEMBA1001569 | F-HEMBA1001569 | 225 | R-HEMBA1001569  | 5763 |
|    | HEMBA1001570 | F-HEMBA1001570 | 226 | R-HEMBA1001570  | 5764 |
|    | HEMBA1001579 | F-HEMBA1001579 | 227 | R-HEMBA1001579  | 5765 |
| 35 | HEMBA1001581 | F-HEMBA1001581 | 228 | R-HEMBA1001581  | 5766 |
|    | HEMBA1001585 | F-HEMBA1001585 | 229 | R-HEMBA1001585  | 5767 |
|    | HEMBA1001589 | F-HEMBA1001589 | 230 | R-HEMBA1001589  | 5768 |
|    | HEMBA1001595 | F-HEMBA1001595 | 231 | R-HEMBA1001595  | 5769 |
| 40 | HEMBA1001608 | F-HEMBA1001608 | 232 | R-HEMBA1001608  | 5770 |
|    | HEMBA1001620 | F-HEMBA1001620 | 233 | R-HEMBA1001620  | 5771 |
|    | HEMBA1001635 | F-HEMBA1001635 | 234 | R-nnnnnnnnnnnnn | 5772 |
|    | HEMBA1001636 | F-HEMBA1001636 | 235 | R-HEMBA1001636  | 5773 |
| 45 | HEMBA1001640 | F-HEMBA1001640 | 236 | R-HEMBA1001640  | 5774 |
|    | HEMBA1001647 | F-HEMBA1001647 | 237 |                 |      |
|    | HEMBA1001651 | F-HEMBA1001651 | 238 | R-nnnnnnnnnnnnn | 5775 |
|    | HEMBA1001655 | F-HEMBA1001655 | 239 | R-HEMBA1001655  | 5776 |
|    | HEMBA1001658 | F-HEMBA1001658 | 240 | R-HEMBA1001658  | 5777 |
| 50 | HEMBA1001661 | F-HEMBA1001661 | 241 | R-HEMBA1001661  | 5778 |
|    | HEMBA1001672 | F-HEMBA1001672 | 242 | R-HEMBA1001672  | 5779 |
|    | HEMBA1001675 | F-HEMBA1001675 | 243 | R-HEMBA1001675  | 5780 |
|    | HEMBA1001678 | F-HEMBA1001678 | 244 | R-HEMBA1001678  | 5781 |
| 55 | HEMBA1001681 | F-HEMBA1001681 | 245 | R-HEMBA1001681  | 5782 |

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|    | HEMBA1001702 | F-HEMBA1001702 | 246 | R-HEMBA1001702  | 5783 |
|    | HEMBA1001709 | F-HEMBA1001709 | 247 | R-HEMBA1001709  | 5784 |
|    | HEMBA1001711 | F-HEMBA1001711 | 248 | R-HEMBA1001711  | 5785 |
| 5  | HEMBA1001712 | F-HEMBA1001712 | 249 | R-HEMBA1001712  | 5786 |
|    | HEMBA1001714 | F-HEMBA1001714 | 250 | R-HEMBA1001714  | 5787 |
|    | HEMBA1001718 | F-HEMBA1001718 | 251 | R-HEMBA1001718  | 5788 |
|    | HEMBA1001723 | F-HEMBA1001723 | 252 | R-HEMBA1001723  | 5789 |
| 10 | HEMBA1001731 | F-HEMBA1001731 | 253 | R-HEMBA1001731  | 5790 |
|    | HEMBA1001734 | F-HEMBA1001734 | 254 | R-HEMBA1001734  | 5791 |
|    | HEMBA1001744 | F-HEMBA1001744 | 255 | R-HEMBA1001744  | 5792 |
|    | HEMBA1001745 | F-HEMBA1001745 | 256 | R-HEMBA1001745  | 5793 |
| 15 | HEMBA1001746 | F-HEMBA1001746 | 257 | R-HEMBA1001746  | 5794 |
|    | HEMBA1001761 | F-HEMBA1001761 | 258 | R-HEMBA1001761  | 5795 |
|    | HEMBA1001781 | F-HEMBA1001781 | 259 | R-HEMBA1001781  | 5796 |
|    | HEMBA1001784 | F-HEMBA1001784 | 260 | R-HEMBA1001784  | 5797 |
| 20 | HEMBA1001791 | F-HEMBA1001791 | 261 | R-HEMBA1001791  | 5798 |
|    | HEMBA1001800 | F-HEMBA1001800 | 262 | R-HEMBA1001800  | 5799 |
|    | HEMBA1001803 | F-HEMBA1001803 | 263 | R-HEMBA1001803  | 5800 |
|    | HEMBA1001804 | F-HEMBA1001804 | 264 | R-nnnnnnnnnnnnn | 5801 |
|    | HEMBA1001808 | F-HEMBA1001808 | 265 | R-HEMBA1001808  | 5802 |
| 25 | HEMBA1001809 | F-HEMBA1001809 | 266 | R-HEMBA1001809  | 5803 |
|    | HEMBA1001815 | F-HEMBA1001815 | 267 | R-HEMBA1001815  | 5804 |
|    | HEMBA1001819 | F-HEMBA1001819 | 268 | R-HEMBA1001819  | 5805 |
|    | HEMBA1001820 | F-HEMBA1001820 | 269 | R-HEMBA1001820  | 5806 |
| 30 | HEMBA1001822 | F-HEMBA1001822 | 270 | R-nnnnnnnnnnnnn | 5807 |
|    | HEMBA1001824 | F-HEMBA1001824 | 271 | R-HEMBA1001824  | 5808 |
|    | HEMBA1001835 | F-HEMBA1001835 | 272 | R-HEMBA1001835  | 5809 |
|    | HEMBA1001844 | F-HEMBA1001844 | 273 | R-HEMBA1001844  | 5810 |
| 35 | HEMBA1001847 | F-HEMBA1001847 | 274 | R-HEMBA1001847  | 5811 |
|    | HEMBA1001861 | F-HEMBA1001861 | 275 | R-HEMBA1001861  | 5812 |
|    | HEMBA1001864 | F-HEMBA1001864 | 276 | R-HEMBA1001864  | 5813 |
|    | HEMBA1001866 | F-HEMBA1001866 | 277 | R-HEMBA1001866  | 5814 |
| 40 | HEMBA1001869 | F-HEMBA1001869 | 278 | R-nnnnnnnnnnnnn | 5815 |
|    | HEMBA1001888 | F-HEMBA1001888 | 279 | R-HEMBA1001888  | 5816 |
|    | HEMBA1001896 | F-HEMBA1001896 | 280 | R-HEMBA1001896  | 5817 |
|    | HEMBA1001910 | F-HEMBA1001910 | 281 | R-HEMBA1001910  | 5818 |
| 45 | HEMBA1001912 | F-HEMBA1001912 | 282 | R-HEMBA1001912  | 5819 |
|    | HEMBA1001913 | F-HEMBA1001913 | 283 | R-HEMBA1001913  | 5820 |
|    | HEMBA1001915 | F-HEMBA1001915 | 284 | R-HEMBA1001915  | 5821 |
|    | HEMBA1001918 | F-HEMBA1001918 | 285 | R-HEMBA1001918  | 5822 |
|    | HEMBA1001921 | F-HEMBA1001921 | 286 | R-HEMBA1001921  | 5823 |
| 50 | HEMBA1001939 | F-HEMBA1001939 | 287 | R-HEMBA1001939  | 5824 |
|    | HEMBA1001940 | F-HEMBA1001940 | 288 | R-HEMBA1001940  | 5825 |
|    | HEMBA1001942 | F-HEMBA1001942 | 289 | R-HEMBA1001942  | 5826 |
|    | HEMBA1001945 | F-HEMBA1001945 | 290 | R-HEMBA1001945  | 5827 |
| 55 | HEMBA1001950 | F-HEMBA1001950 | 291 | R-HEMBA1001950  | 5828 |

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|    | HEMBA1001960 | F-HEMBA1001960 | 292 | R-HEMBA1001960 | 5829 |
|    | HEMBA1001962 | F-HEMBA1001962 | 293 | R-HEMBA1001962 | 5830 |
|    | HEMBA1001964 | F-HEMBA1001964 | 294 | R-HEMBA1001964 | 5831 |
| 5  | HEMBA1001967 | F-HEMBA1001967 | 295 | R-HEMBA1001967 | 5832 |
|    | HEMBA1001979 | F-HEMBA1001979 | 296 | R-HEMBA1001979 | 5833 |
|    | HEMBA1001987 | F-HEMBA1001987 | 297 | R-HEMBA1001987 | 5834 |
|    | HEMBA1001991 | F-HEMBA1001991 | 298 | R-HEMBA1001991 | 5835 |
| 10 | HEMBA1002003 | F-HEMBA1002003 | 299 | R-HEMBA1002003 | 5836 |
|    | HEMBA1002008 | F-HEMBA1002008 | 300 | R-HEMBA1002008 | 5837 |
|    | HEMBA1002018 | F-HEMBA1002018 | 301 | R-HEMBA1002018 | 5838 |
|    | HEMBA1002022 | F-HEMBA1002022 | 302 | R-HEMBA1002022 | 5839 |
| 15 | HEMBA1002035 | F-HEMBA1002035 | 303 | R-HEMBA1002035 | 5840 |
|    | HEMBA1002039 | F-HEMBA1002039 | 304 | R-HEMBA1002039 | 5841 |
|    | HEMBA1002049 | F-HEMBA1002049 | 305 | R-HEMBA1002049 | 5842 |
|    | HEMBA1002084 | F-HEMBA1002084 | 306 | R-HEMBA1002084 | 5843 |
| 20 | HEMBA1002092 | F-HEMBA1002092 | 307 | R-HEMBA1002092 | 5844 |
|    | HEMBA1002100 | F-HEMBA1002100 | 308 | R-HEMBA1002100 | 5845 |
|    | HEMBA1002102 | F-HEMBA1002102 | 309 | R-HEMBA1002102 | 5846 |
|    | HEMBA1002113 | F-HEMBA1002113 | 310 | R-HEMBA1002113 | 5847 |
|    | HEMBA1002119 | F-HEMBA1002119 | 311 | R-HEMBA1002119 | 5848 |
| 25 | HEMBA1002125 | F-HEMBA1002125 | 312 | R-HEMBA1002125 | 5849 |
|    | HEMBA1002139 | F-HEMBA1002139 | 313 | R-HEMBA1002139 | 5850 |
|    | HEMBA1002144 | F-HEMBA1002144 | 314 | R-HEMBA1002144 | 5851 |
|    | HEMBA1002150 | F-HEMBA1002150 | 315 | R-HEMBA1002150 | 5852 |
| 30 | HEMBA1002151 | F-HEMBA1002151 | 316 | R-HEMBA1002151 | 5853 |
|    | HEMBA1002153 | F-HEMBA1002153 | 317 | R-HEMBA1002153 | 5854 |
|    | HEMBA1002160 | F-HEMBA1002160 | 318 | R-HEMBA1002160 | 5855 |
|    | HEMBA1002161 | F-HEMBA1002161 | 319 | R-HEMBA1002161 | 5856 |
| 35 | HEMBA1002162 | F-HEMBA1002162 | 320 | R-HEMBA1002162 | 5857 |
|    | HEMBA1002166 | F-HEMBA1002166 | 321 | R-HEMBA1002166 | 5858 |
|    | HEMBA1002177 | F-HEMBA1002177 | 322 | R-HEMBA1002177 | 5859 |
|    | HEMBA1002185 | F-HEMBA1002185 | 323 | R-HEMBA1002185 | 5860 |
| 40 | HEMBA1002189 | F-HEMBA1002189 | 324 | R-HEMBA1002189 | 5861 |
|    | HEMBA1002191 | F-HEMBA1002191 | 325 | R-HEMBA1002191 | 5862 |
|    | HEMBA1002199 | F-HEMBA1002199 | 326 | R-HEMBA1002199 | 5863 |
|    | HEMBA1002204 | F-HEMBA1002204 | 327 | R-HEMBA1002204 | 5864 |
|    | HEMBA1002212 | F-HEMBA1002212 | 328 | R-HEMBA1002212 | 5865 |
| 45 | HEMBA1002215 | F-HEMBA1002215 | 329 | R-HEMBA1002215 | 5866 |
|    | HEMBA1002226 | F-HEMBA1002226 | 330 | R-HEMBA1002226 | 5867 |
|    | HEMBA1002229 | F-HEMBA1002229 | 331 | R-HEMBA1002229 | 5868 |
|    | HEMBA1002237 | F-HEMBA1002237 | 332 | R-HEMBA1002237 | 5869 |
| 50 | HEMBA1002241 | F-HEMBA1002241 | 333 |                |      |
|    | HEMBA1002253 | F-HEMBA1002253 | 334 | R-HEMBA1002253 | 5870 |
|    | HEMBA1002257 | F-HEMBA1002257 | 335 | R-HEMBA1002257 | 5871 |
|    | HEMBA1002265 | F-HEMBA1002265 | 336 |                |      |
| 55 | HEMBA1002267 | F-HEMBA1002267 | 337 | R-HEMBA1002267 | 5872 |

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|    | HEMBA1002270 | F-HEMBA1002270 | 338 | R-HEMBA1002270  | 5873 |
|    | HEMBA1002321 | F-HEMBA1002321 | 339 | R-HEMBA1002321  | 5874 |
|    | HEMBA1002328 | F-HEMBA1002328 | 340 | R-HEMBA1002328  | 5875 |
| 5  | HEMBA1002337 | F-HEMBA1002337 | 341 | R-HEMBA1002337  | 5876 |
|    | HEMBA1002341 | F-HEMBA1002341 | 342 | R-HEMBA1002341  | 5877 |
|    | HEMBA1002348 | F-HEMBA1002348 | 343 | R-HEMBA1002348  | 5878 |
|    | HEMBA1002349 | F-HEMBA1002349 | 344 | R-HEMBA1002349  | 5879 |
| 10 | HEMBA1002363 | F-HEMBA1002363 | 345 | R-nnnnnnnnnnnnn | 5880 |
|    | HEMBA1002381 | F-HEMBA1002381 | 346 | R-HEMBA1002381  | 5881 |
|    | HEMBA1002389 | F-HEMBA1002389 | 347 | R-HEMBA1002389  | 5882 |
|    | HEMBA1002417 | F-HEMBA1002417 | 348 | R-HEMBA1002417  | 5883 |
| 15 | HEMBA1002419 | F-HEMBA1002419 | 349 | R-HEMBA1002419  | 5884 |
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|    | HEMBA1002439 | F-HEMBA1002439 | 351 | R-HEMBA1002439  | 5886 |
|    | HEMBA1002458 | F-HEMBA1002458 | 352 | R-HEMBA1002458  | 5887 |
| 20 | HEMBA1002460 | F-HEMBA1002460 | 353 | R-HEMBA1002460  | 5888 |
|    | HEMBA1002462 | F-HEMBA1002462 | 354 | R-HEMBA1002462  | 5889 |
|    | HEMBA1002469 | F-HEMBA1002469 | 355 |                 |      |
|    | HEMBA1002475 | F-HEMBA1002475 | 356 | R-nnnnnnnnnnnnn | 5890 |
|    | HEMBA1002477 | F-HEMBA1002477 | 357 | R-HEMBA1002477  | 5891 |
| 25 | HEMBA1002486 | F-HEMBA1002486 | 358 | R-HEMBA1002486  | 5892 |
|    | HEMBA1002495 | F-HEMBA1002495 | 359 | R-HEMBA1002495  | 5893 |
|    | HEMBA1002498 | F-HEMBA1002498 | 360 | R-HEMBA1002498  | 5894 |
|    | HEMBA1002503 | F-HEMBA1002503 | 361 | R-HEMBA1002503  | 5895 |
| 30 | HEMBA1002508 | F-HEMBA1002508 | 362 | R-HEMBA1002508  | 5896 |
|    | HEMBA1002513 | F-HEMBA1002513 | 363 | R-nnnnnnnnnnnnn | 5897 |
|    | HEMBA1002515 | F-HEMBA1002515 | 364 | R-HEMBA1002515  | 5898 |
|    | HEMBA1002538 | F-HEMBA1002538 | 365 | R-HEMBA1002538  | 5899 |
| 35 | HEMBA1002542 | F-HEMBA1002542 | 366 | R-HEMBA1002542  | 5900 |
|    | HEMBA1002547 | F-HEMBA1002547 | 367 | R-HEMBA1002547  | 5901 |
|    | HEMBA1002552 | F-HEMBA1002552 | 368 | R-HEMBA1002552  | 5902 |
|    | HEMBA1002555 | F-HEMBA1002555 | 369 | R-HEMBA1002555  | 5903 |
| 40 | HEMBA1002558 | F-HEMBA1002558 | 370 | R-HEMBA1002558  | 5904 |
|    | HEMBA1002561 | F-HEMBA1002561 | 371 | R-HEMBA1002561  | 5905 |
|    | HEMBA1002569 | F-HEMBA1002569 | 372 | R-nnnnnnnnnnnnn | 5906 |
|    | HEMBA1002583 | F-HEMBA1002583 | 373 | R-HEMBA1002583  | 5907 |
|    | HEMBA1002590 | F-HEMBA1002590 | 374 | R-HEMBA1002590  | 5908 |
| 45 | HEMBA1002592 | F-HEMBA1002592 | 375 | R-HEMBA1002592  | 5909 |
|    | HEMBA1002609 | F-HEMBA1002609 | 376 |                 |      |
|    | HEMBA1002621 | F-HEMBA1002621 | 377 | R-HEMBA1002621  | 5910 |
|    | HEMBA1002624 | F-HEMBA1002624 | 378 | R-HEMBA1002624  | 5911 |
| 50 | HEMBA1002628 | F-HEMBA1002628 | 379 | R-HEMBA1002628  | 5912 |
|    | HEMBA1002629 | F-HEMBA1002629 | 380 | R-HEMBA1002629  | 5913 |
|    | HEMBA1002645 | F-HEMBA1002645 | 381 | R-HEMBA1002645  | 5914 |
|    | HEMBA1002651 | F-HEMBA1002651 | 382 | R-HEMBA1002651  | 5915 |
| 55 | HEMBA1002659 | F-HEMBA1002659 | 383 | R-HEMBA1002659  | 5916 |



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|    | HEMBA1002661 | F-HEMBA1002661 | 384 | R-HEMBA1002661  | 5917 |
|    | HEMBA1002666 | F-HEMBA1002666 | 385 | R-HEMBA1002666  | 5918 |
|    | HEMBA1002678 | F-HEMBA1002678 | 386 | R-HEMBA1002678  | 5919 |
| 5  | HEMBA1002679 | F-HEMBA1002679 | 387 | R-nnnnnnnnnnnnn | 5920 |
|    | HEMBA1002688 | F-HEMBA1002688 | 388 | R-HEMBA1002688  | 5921 |
|    | HEMBA1002696 | F-HEMBA1002696 | 389 | R-HEMBA1002696  | 5922 |
|    | HEMBA1002703 | F-HEMBA1002703 | 390 |                 |      |
| 10 | HEMBA1002712 | F-HEMBA1002712 | 391 | R-HEMBA1002712  | 5923 |
|    | HEMBA1002716 | F-HEMBA1002716 | 392 | R-HEMBA1002716  | 5924 |
|    | HEMBA1002728 | F-HEMBA1002728 | 393 | R-HEMBA1002728  | 5925 |
|    | HEMBA1002730 | F-HEMBA1002730 | 394 | R-HEMBA1002730  | 5926 |
| 15 | HEMBA1002742 | F-HEMBA1002742 | 395 | R-HEMBA1002742  | 5927 |
|    | HEMBA1002746 | F-HEMBA1002746 | 396 | R-HEMBA1002746  | 5928 |
|    | HEMBA1002748 | F-HEMBA1002748 | 397 | R-HEMBA1002748  | 5929 |
|    | HEMBA1002750 | F-HEMBA1002750 | 398 | R-HEMBA1002750  | 5930 |
| 20 | HEMBA1002768 | F-HEMBA1002768 | 399 | R-HEMBA1002768  | 5931 |
|    | HEMBA1002770 | F-HEMBA1002770 | 400 | R-HEMBA1002770  | 5932 |
|    | HEMBA1002777 | F-HEMBA1002777 | 401 | R-HEMBA1002777  | 5933 |
|    | HEMBA1002779 | F-HEMBA1002779 | 402 | R-HEMBA1002779  | 5934 |
|    | HEMBA1002780 | F-HEMBA1002780 | 403 | R-HEMBA1002780  | 5935 |
| 25 | HEMBA1002794 | F-HEMBA1002794 | 404 | R-HEMBA1002794  | 5936 |
|    | HEMBA1002801 | F-HEMBA1002801 | 405 | R-HEMBA1002801  | 5937 |
|    | HEMBA1002810 | F-HEMBA1002810 | 406 | R-HEMBA1002810  | 5938 |
|    | HEMBA1002816 | F-HEMBA1002816 | 407 | R-HEMBA1002816  | 5939 |
| 30 | HEMBA1002818 | F-HEMBA1002818 | 408 |                 |      |
|    | HEMBA1002826 | F-HEMBA1002826 | 409 | R-HEMBA1002826  | 5940 |
|    | HEMBA1002833 | F-HEMBA1002833 | 410 | R-HEMBA1002833  | 5941 |
|    | HEMBA1002850 | F-HEMBA1002850 | 411 | R-HEMBA1002850  | 5942 |
| 35 | HEMBA1002863 | F-HEMBA1002863 | 412 | R-HEMBA1002863  | 5943 |
|    | HEMBA1002876 | F-HEMBA1002876 | 413 | R-HEMBA1002876  | 5944 |
|    | HEMBA1002886 | F-HEMBA1002886 | 414 | R-HEMBA1002886  | 5945 |
|    | HEMBA1002896 | F-HEMBA1002896 | 415 | R-HEMBA1002896  | 5946 |
| 40 | HEMBA1002921 | F-HEMBA1002921 | 416 | R-HEMBA1002921  | 5947 |
|    | HEMBA1002924 | F-HEMBA1002924 | 417 | R-HEMBA1002924  | 5948 |
|    | HEMBA1002934 | F-HEMBA1002934 | 418 | R-HEMBA1002934  | 5949 |
|    | HEMBA1002935 | F-HEMBA1002935 | 419 | R-HEMBA1002935  | 5950 |
|    | HEMBA1002937 | F-HEMBA1002937 | 420 | R-HEMBA1002937  | 5951 |
| 45 | HEMBA1002939 | F-HEMBA1002939 | 421 | R-HEMBA1002939  | 5952 |
|    | HEMBA1002944 | F-HEMBA1002944 | 422 | R-HEMBA1002944  | 5953 |
|    | HEMBA1002951 | F-HEMBA1002951 | 423 | R-HEMBA1002951  | 5954 |
|    | HEMBA1002954 | F-HEMBA1002954 | 424 | R-HEMBA1002954  | 5955 |
| 50 | HEMBA1002968 | F-HEMBA1002968 | 425 | R-HEMBA1002968  | 5956 |
|    | HEMBA1002970 | F-HEMBA1002970 | 426 | R-HEMBA1002970  | 5957 |
|    | HEMBA1002971 | F-HEMBA1002971 | 427 | R-HEMBA1002971  | 5958 |
|    | HEMBA1002973 | F-HEMBA1002973 | 428 | R-HEMBA1002973  | 5959 |
| 55 | HEMBA1002997 | F-HEMBA1002997 | 429 | R-nnnnnnnnnnnnn | 5960 |

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|    | HEMBA1003021 | F-HEMBA1003021 | 431 | R-HEMBA1003021 | 5962 |
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| 5  | HEMBA1003034 | F-HEMBA1003034 | 433 | R-HEMBA1003034 | 5964 |
|    | HEMBA1003035 | F-HEMBA1003035 | 434 | R-HEMBA1003035 | 5965 |
|    | HEMBA1003037 | F-HEMBA1003037 | 435 | R-HEMBA1003037 | 5966 |
|    | HEMBA1003041 | F-HEMBA1003041 | 436 | R-HEMBA1003041 | 5967 |
| 10 | HEMBA1003046 | F-HEMBA1003046 | 437 | R-HEMBA1003046 | 5968 |
|    | HEMBA1003064 | F-HEMBA1003064 | 438 | R-HEMBA1003064 | 5969 |
|    | HEMBA1003067 | F-HEMBA1003067 | 439 | R-HEMBA1003067 | 5970 |
|    | HEMBA1003071 | F-HEMBA1003071 | 440 | R-HEMBA1003071 | 5971 |
| 15 | HEMBA1003077 | F-HEMBA1003077 | 441 | R-HEMBA1003077 | 5972 |
|    | HEMBA1003078 | F-HEMBA1003078 | 442 | R-HEMBA1003078 | 5973 |
|    | HEMBA1003079 | F-HEMBA1003079 | 443 | R-HEMBA1003079 | 5974 |
|    | HEMBA1003083 | F-HEMBA1003083 | 444 | R-HEMBA1003083 | 5975 |
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|    | HEMBA1003096 | F-HEMBA1003096 | 446 | R-HEMBA1003096 | 5977 |
|    | HEMBA1003098 | F-HEMBA1003098 | 447 | R-HEMBA1003098 | 5978 |
|    | HEMBA1003117 | F-HEMBA1003117 | 448 | R-HEMBA1003117 | 5979 |
|    | HEMBA1003129 | F-HEMBA1003129 | 449 | R-HEMBA1003129 | 5980 |
| 25 | HEMBA1003133 | F-HEMBA1003133 | 450 | R-HEMBA1003133 | 5981 |
|    | HEMBA1003136 | F-HEMBA1003136 | 451 | R-HEMBA1003136 | 5982 |
|    | HEMBA1003142 | F-HEMBA1003142 | 452 | R-HEMBA1003142 | 5983 |
|    | HEMBA1003148 | F-HEMBA1003148 | 453 | R-HEMBA1003148 | 5984 |
| 30 | HEMBA1003166 | F-HEMBA1003166 | 454 | R-HEMBA1003166 | 5985 |
|    | HEMBA1003175 | F-HEMBA1003175 | 455 | R-HEMBA1003175 | 5986 |
|    | HEMBA1003179 | F-HEMBA1003179 | 456 |                |      |
|    | HEMBA1003197 | F-HEMBA1003197 | 457 | R-HEMBA1003197 | 5987 |
| 35 | HEMBA1003199 | F-HEMBA1003199 | 458 | R-HEMBA1003199 | 5988 |
|    | HEMBA1003202 | F-HEMBA1003202 | 459 | R-HEMBA1003202 | 5989 |
|    | HEMBA1003204 | F-HEMBA1003204 | 460 | R-HEMBA1003204 | 5990 |
|    | HEMBA1003212 | F-HEMBA1003212 | 461 | R-HEMBA1003212 | 5991 |
| 40 | HEMBA1003220 | F-HEMBA1003220 | 462 | R-HEMBA1003220 | 5992 |
|    | HEMBA1003222 | F-HEMBA1003222 | 463 | R-HEMBA1003222 | 5993 |
|    | HEMBA1003229 | F-HEMBA1003229 | 464 | R-HEMBA1003229 | 5994 |
|    | HEMBA1003235 | F-HEMBA1003235 | 465 | R-HEMBA1003235 | 5995 |
|    | HEMBA1003250 | F-HEMBA1003250 | 466 | R-HEMBA1003250 | 5996 |
| 45 | HEMBA1003257 | F-HEMBA1003257 | 467 | R-HEMBA1003257 | 5997 |
|    | HEMBA1003273 | F-HEMBA1003273 | 468 | R-HEMBA1003273 | 5998 |
|    | HEMBA1003276 | F-HEMBA1003276 | 469 | R-HEMBA1003276 | 5999 |
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| 50 | HEMBA1003281 | F-HEMBA1003281 | 471 | R-HEMBA1003281 | 6001 |
|    | HEMBA1003286 | F-HEMBA1003286 | 472 |                |      |
|    | HEMBA1003291 | F-HEMBA1003291 | 473 | R-HEMBA1003291 | 6002 |
|    | HEMBA1003296 | F-HEMBA1003296 | 474 | R-HEMBA1003296 | 6003 |
| 55 | HEMBA1003304 | F-HEMBA1003304 | 475 | R-HEMBA1003304 | 6004 |

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|    | HEMBA1003309 | F-HEMBA1003309 | 476 | R-HEMBA1003309  | 6005 |
|    | HEMBA1003314 | F-HEMBA1003314 | 477 | R-HEMBA1003314  | 6006 |
|    | HEMBA1003322 | F-HEMBA1003322 | 478 | R-HEMBA1003322  | 6007 |
| 5  | HEMBA1003327 | F-HEMBA1003327 | 479 | R-HEMBA1003327  | 6008 |
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|    | HEMBA1003348 | F-HEMBA1003348 | 482 | R-HEMBA1003348  | 6011 |
| 10 | HEMBA1003369 | F-HEMBA1003369 | 483 | R-HEMBA1003369  | 6012 |
|    | HEMBA1003370 | F-HEMBA1003370 | 484 | R-HEMBA1003370  | 6013 |
|    | HEMBA1003373 | F-HEMBA1003373 | 485 | R-HEMBA1003373  | 6014 |
|    | HEMBA1003376 | F-HEMBA1003376 | 486 | R-HEMBA1003376  | 6015 |
| 15 | HEMBA1003380 | F-HEMBA1003380 | 487 | R-HEMBA1003380  | 6016 |
|    | HEMBA1003384 | F-HEMBA1003384 | 488 | R-HEMBA1003384  | 6017 |
|    | HEMBA1003395 | F-HEMBA1003395 | 489 | R-HEMBA1003395  | 6018 |
|    | HEMBA1003402 | F-HEMBA1003402 | 490 | R-HEMBA1003402  | 6019 |
| 20 | HEMBA1003403 | F-HEMBA1003403 | 491 |                 |      |
|    | HEMBA1003408 | F-HEMBA1003408 | 492 | R-nnnnnnnnnnnnn | 6020 |
|    | HEMBA1003417 | F-HEMBA1003417 | 493 | R-HEMBA1003417  | 6021 |
|    | HEMBA1003418 | F-HEMBA1003418 | 494 | R-HEMBA1003418  | 6022 |
|    | HEMBA1003433 | F-HEMBA1003433 | 495 | R-HEMBA1003433  | 6023 |
| 25 | HEMBA1003447 | F-HEMBA1003447 | 496 |                 |      |
|    | HEMBA1003461 | F-HEMBA1003461 | 497 | R-HEMBA1003461  | 6024 |
|    | HEMBA1003463 | F-HEMBA1003463 | 498 | R-HEMBA1003463  | 6025 |
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| 30 | HEMBA1003528 | F-HEMBA1003528 | 500 | R-HEMBA1003528  | 6027 |
|    | HEMBA1003531 | F-HEMBA1003531 | 501 | R-HEMBA1003531  | 6028 |
|    | HEMBA1003538 | F-HEMBA1003538 | 502 | R-HEMBA1003538  | 6029 |
|    | HEMBA1003545 | F-HEMBA1003545 | 503 | R-HEMBA1003545  | 6030 |
| 35 | HEMBA1003548 | F-HEMBA1003548 | 504 | R-HEMBA1003548  | 6031 |
|    | HEMBA1003555 | F-HEMBA1003555 | 505 | R-HEMBA1003555  | 6032 |
|    | HEMBA1003556 | F-HEMBA1003556 | 506 | R-HEMBA1003556  | 6033 |
|    | HEMBA1003560 | F-HEMBA1003560 | 507 | R-HEMBA1003560  | 6034 |
| 40 | HEMBA1003568 | F-HEMBA1003568 | 508 | R-HEMBA1003568  | 6035 |
|    | HEMBA1003569 | F-HEMBA1003569 | 509 | R-HEMBA1003569  | 6036 |
|    | HEMBA1003571 | F-HEMBA1003571 | 510 | R-HEMBA1003571  | 6037 |
|    | HEMBA1003579 | F-HEMBA1003579 | 511 | R-HEMBA1003579  | 6038 |
|    | HEMBA1003581 | F-HEMBA1003581 | 512 | R-HEMBA1003581  | 6039 |
| 45 | HEMBA1003591 | F-HEMBA1003591 | 513 | R-HEMBA1003591  | 6040 |
|    | HEMBA1003595 | F-HEMBA1003595 | 514 | R-HEMBA1003595  | 6041 |
|    | HEMBA1003597 | F-HEMBA1003597 | 515 | R-HEMBA1003597  | 6042 |
|    | HEMBA1003598 | F-HEMBA1003598 | 516 | R-HEMBA1003598  | 6043 |
| 50 | HEMBA1003615 | F-HEMBA1003615 | 517 | R-HEMBA1003615  | 6044 |
|    | HEMBA1003617 | F-HEMBA1003617 | 518 | R-HEMBA1003617  | 6045 |
|    | HEMBA1003621 | F-HEMBA1003621 | 519 | R-HEMBA1003621  | 6046 |
|    | HEMBA1003622 | F-HEMBA1003622 | 520 | R-HEMBA1003622  | 6047 |
| 55 | HEMBA1003630 | F-HEMBA1003630 | 521 | R-HEMBA1003630  | 6048 |

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|    | HEMBA1003637 | F-HEMBA1003637 | 522 | R-HEMBA1003637 | 6049 |
|    | HEMBA1003640 | F-HEMBA1003640 | 523 | R-HEMBA1003640 | 6050 |
|    | HEMBA1003645 | F-HEMBA1003645 | 524 | R-HEMBA1003645 | 6051 |
| 5  | HEMBA1003646 | F-HEMBA1003646 | 525 | R-HEMBA1003646 | 6052 |
|    | HEMBA1003656 | F-HEMBA1003656 | 526 | R-HEMBA1003656 | 6053 |
|    | HEMBA1003662 | F-HEMBA1003662 | 527 | R-HEMBA1003662 | 6054 |
|    | HEMBA1003667 | F-HEMBA1003667 | 528 | R-HEMBA1003667 | 6055 |
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|    | HEMBA1003680 | F-HEMBA1003680 | 530 | R-HEMBA1003680 | 6057 |
|    | HEMBA1003684 | F-HEMBA1003684 | 531 | R-HEMBA1003684 | 6058 |
|    | HEMBA1003690 | F-HEMBA1003690 | 532 | R-HEMBA1003690 | 6059 |
| 15 | HEMBA1003692 | F-HEMBA1003692 | 533 | R-HEMBA1003692 | 6060 |
|    | HEMBA1003711 | F-HEMBA1003711 | 534 | R-HEMBA1003711 | 6061 |
|    | HEMBA1003714 | F-HEMBA1003714 | 535 | R-HEMBA1003714 | 6062 |
|    | HEMBA1003715 | F-HEMBA1003715 | 536 | R-HEMBA1003715 | 6063 |
| 20 | HEMBA1003720 | F-HEMBA1003720 | 537 | R-HEMBA1003720 | 6064 |
|    | HEMBA1003725 | F-HEMBA1003725 | 538 | R-HEMBA1003725 | 6065 |
|    | HEMBA1003729 | F-HEMBA1003729 | 539 | R-HEMBA1003729 | 6066 |
|    | HEMBA1003733 | F-HEMBA1003733 | 540 | R-HEMBA1003733 | 6067 |
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| 25 | HEMBA1003758 | F-HEMBA1003758 | 542 | R-HEMBA1003758 | 6069 |
|    | HEMBA1003760 | F-HEMBA1003760 | 543 | R-HEMBA1003760 | 6070 |
|    | HEMBA1003773 | F-HEMBA1003773 | 544 | R-HEMBA1003773 | 6071 |
|    | HEMBA1003783 | F-HEMBA1003783 | 545 | R-HEMBA1003783 | 6072 |
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|    | HEMBA1003807 | F-HEMBA1003807 | 551 | R-HEMBA1003807 | 6078 |
|    | HEMBA1003827 | F-HEMBA1003827 | 552 |                |      |
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|    | HEMBA1003838 | F-HEMBA1003838 | 554 | R-HEMBA1003838 | 6080 |
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|    | HEMBA1003864 | F-HEMBA1003864 | 556 | R-HEMBA1003864 | 6082 |
|    | HEMBA1003866 | F-HEMBA1003866 | 557 | R-HEMBA1003866 | 6083 |
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| 45 | HEMBA1003880 | F-HEMBA1003880 | 559 | R-HEMBA1003880 | 6085 |
|    | HEMBA1003885 | F-HEMBA1003885 | 560 | R-HEMBA1003885 | 6086 |
|    | HEMBA1003893 | F-HEMBA1003893 | 561 | R-HEMBA1003893 | 6087 |
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| 50 | HEMBA1003908 | F-HEMBA1003908 | 563 | R-HEMBA1003908 | 6089 |
|    | HEMBA1003926 | F-HEMBA1003926 | 564 | R-HEMBA1003926 | 6090 |
|    | HEMBA1003937 | F-HEMBA1003937 | 565 | R-HEMBA1003937 | 6091 |
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| 55 | HEMBA1003942 | F-HEMBA1003942 | 567 | R-HEMBA1003942 | 6093 |

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| 5  | HEMBA1003959 | F-HEMBA1003959 | 571 | R-HEMBA1003959 | 6097 |
|    | HEMBA1003976 | F-HEMBA1003976 | 572 | R-HEMBA1003976 | 6098 |
|    | HEMBA1003978 | F-HEMBA1003978 | 573 | R-HEMBA1003978 | 6099 |
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|    | HEMBA1004011 | F-HEMBA1004011 | 578 | R-HEMBA1004011 | 6104 |
| 15 | HEMBA1004012 | F-HEMBA1004012 | 579 | R-HEMBA1004012 | 6105 |
|    | HEMBA1004015 | F-HEMBA1004015 | 580 | R-HEMBA1004015 | 6106 |
|    | HEMBA1004024 | F-HEMBA1004024 | 581 | R-HEMBA1004024 | 6107 |
|    | HEMBA1004038 | F-HEMBA1004038 | 582 | R-HEMBA1004038 | 6108 |
| 20 | HEMBA1004042 | F-HEMBA1004042 | 583 | R-HEMBA1004042 | 6109 |
|    | HEMBA1004045 | F-HEMBA1004045 | 584 | R-HEMBA1004045 | 6110 |
|    | HEMBA1004048 | F-HEMBA1004048 | 585 | R-HEMBA1004048 | 6111 |
|    | HEMBA1004049 | F-HEMBA1004049 | 586 | R-HEMBA1004049 | 6112 |
|    | HEMBA1004055 | F-HEMBA1004055 | 587 | R-HEMBA1004055 | 6113 |
| 25 | HEMBA1004056 | F-HEMBA1004056 | 588 | R-HEMBA1004056 | 6114 |
|    | HEMBA1004074 | F-HEMBA1004074 | 589 | R-HEMBA1004074 | 6115 |
|    | HEMBA1004086 | F-HEMBA1004086 | 590 | R-HEMBA1004086 | 6116 |
|    | HEMBA1004097 | F-HEMBA1004097 | 591 | R-HEMBA1004097 | 6117 |
| 30 | HEMBA1004111 | F-HEMBA1004111 | 592 |                |      |
|    | HEMBA1004131 | F-HEMBA1004131 | 593 | R-HEMBA1004131 | 6118 |
|    | HEMBA1004132 | F-HEMBA1004132 | 594 | R-HEMBA1004132 | 6119 |
|    | HEMBA1004133 | F-HEMBA1004133 | 595 | R-HEMBA1004133 | 6120 |
| 35 | HEMBA1004138 | F-HEMBA1004138 | 596 | R-HEMBA1004138 | 6121 |
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|    | HEMBA1004146 | F-HEMBA1004146 | 598 | R-HEMBA1004146 | 6123 |
|    | HEMBA1004150 | F-HEMBA1004150 | 599 | R-HEMBA1004150 | 6124 |
| 40 | HEMBA1004164 | F-HEMBA1004164 | 600 | R-HEMBA1004164 | 6125 |
|    | HEMBA1004168 | F-HEMBA1004168 | 601 | R-HEMBA1004168 | 6126 |
|    | HEMBA1004199 | F-HEMBA1004199 | 602 | R-HEMBA1004199 | 6127 |
|    | HEMBA1004200 | F-HEMBA1004200 | 603 | R-HEMBA1004200 | 6128 |
|    | HEMBA1004202 | F-HEMBA1004202 | 604 | R-HEMBA1004202 | 6129 |
| 45 | HEMBA1004203 | F-HEMBA1004203 | 605 | R-HEMBA1004203 | 6130 |
|    | HEMBA1004207 | F-HEMBA1004207 | 606 | R-HEMBA1004207 | 6131 |
|    | HEMBA1004225 | F-HEMBA1004225 | 607 | R-HEMBA1004225 | 6132 |
|    | HEMBA1004227 | F-HEMBA1004227 | 608 | R-HEMBA1004227 | 6133 |
| 50 | HEMBA1004238 | F-HEMBA1004238 | 609 | R-HEMBA1004238 | 6134 |
|    | HEMBA1004241 | F-HEMBA1004241 | 610 | R-HEMBA1004241 | 6135 |
|    | HEMBA1004246 | F-HEMBA1004246 | 611 | R-HEMBA1004246 | 6136 |
|    | HEMBA1004248 | F-HEMBA1004248 | 612 | R-HEMBA1004248 | 6137 |
| 55 | HEMBA1004264 | F-HEMBA1004264 | 613 | R-HEMBA1004264 | 6138 |

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|    | HEMBA1004272 | F-HEMBA1004272 | 615 | R-HEMBA1004272  | 6140 |
|    | HEMBA1004274 | F-HEMBA1004274 | 616 |                 |      |
| 5  | HEMBA1004275 | F-HEMBA1004275 | 617 | R-nnnnnnnnnnnnn | 6141 |
|    | HEMBA1004276 | F-HEMBA1004276 | 618 | R-HEMBA1004276  | 6142 |
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|    | HEMBA1004306 | F-HEMBA1004306 | 622 | R-HEMBA1004306  | 6146 |
|    | HEMBA1004312 | F-HEMBA1004312 | 623 | R-HEMBA1004312  | 6147 |
|    | HEMBA1004321 | F-HEMBA1004321 | 624 | R-HEMBA1004321  | 6148 |
| 15 | HEMBA1004323 | F-HEMBA1004323 | 625 | R-HEMBA1004323  | 6149 |
|    | HEMBA1004327 | F-HEMBA1004327 | 626 | R-HEMBA1004327  | 6150 |
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|    | HEMBA1004334 | F-HEMBA1004334 | 628 | R-HEMBA1004334  | 6152 |
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|    | HEMBA1004353 | F-HEMBA1004353 | 631 | R-HEMBA1004353  | 6155 |
|    | HEMBA1004354 | F-HEMBA1004354 | 632 | R-HEMBA1004354  | 6156 |
|    | HEMBA1004356 | F-HEMBA1004356 | 633 | R-HEMBA1004356  | 6157 |
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|    | HEMBA1004389 | F-HEMBA1004389 | 636 | R-HEMBA1004389  | 6160 |
|    | HEMBA1004394 | F-HEMBA1004394 | 637 | R-HEMBA1004394  | 6161 |
| 30 | HEMBA1004396 | F-HEMBA1004396 | 638 | R-HEMBA1004396  | 6162 |
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|    | HEMBA1004408 | F-HEMBA1004408 | 640 | R-HEMBA1004408  | 6164 |
|    | HEMBA1004429 | F-HEMBA1004429 | 641 | R-HEMBA1004429  | 6165 |
|    | HEMBA1004433 | F-HEMBA1004433 | 642 | R-HEMBA1004433  | 6166 |
| 35 | HEMBA1004460 | F-HEMBA1004460 | 643 | R-HEMBA1004460  | 6167 |
|    | HEMBA1004461 | F-HEMBA1004461 | 644 | R-HEMBA1004461  | 6168 |
|    | HEMBA1004479 | F-HEMBA1004479 | 645 | R-HEMBA1004479  | 6169 |
|    | HEMBA1004482 | F-HEMBA1004482 | 646 | R-HEMBA1004482  | 6170 |
| 40 | HEMBA1004499 | F-HEMBA1004499 | 647 |                 |      |
|    | HEMBA1004502 | F-HEMBA1004502 | 648 | R-HEMBA1004502  | 6171 |
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|    | HEMBA1004507 | F-HEMBA1004507 | 650 | R-HEMBA1004507  | 6173 |
| 45 | HEMBA1004509 | F-HEMBA1004509 | 651 | R-HEMBA1004509  | 6174 |
|    | HEMBA1004534 | F-HEMBA1004534 | 652 | R-HEMBA1004534  | 6175 |
|    | HEMBA1004538 | F-HEMBA1004538 | 653 | R-HEMBA1004538  | 6176 |
|    | HEMBA1004542 | F-HEMBA1004542 | 654 |                 |      |
| 50 | HEMBA1004554 | F-HEMBA1004554 | 655 | R-HEMBA1004554  | 6177 |
|    | HEMBA1004560 | F-HEMBA1004560 | 656 | R-HEMBA1004560  | 6178 |
|    | HEMBA1004573 | F-HEMBA1004573 | 657 | R-HEMBA1004573  | 6179 |
|    | HEMBA1004577 | F-HEMBA1004577 | 658 | R-HEMBA1004577  | 6180 |
| 55 | HEMBA1004586 | F-HEMBA1004586 | 659 | R-HEMBA1004586  | 6181 |

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|    | HEMBA1004604 | F-HEMBA1004604 | 661 |                 |      |
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| 5  | HEMBA1004617 | F-HEMBA1004617 | 663 | R-HEMBA1004617  | 6184 |
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|    | HEMBA1004666 | F-HEMBA1004666 | 669 | R-HEMBA1004666  | 6190 |
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| 15 | HEMBA1004672 | F-HEMBA1004672 | 672 | R-HEMBA1004672  | 6193 |
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|    | HEMBA1004705 | F-HEMBA1004705 | 675 | R-HEMBA1004705  | 6196 |
| 20 | HEMBA1004709 | F-HEMBA1004709 | 676 | R-HEMBA1004709  | 6197 |
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|    | HEMBA1004725 | F-HEMBA1004725 | 678 | R-HEMBA1004725  | 6199 |
|    | HEMBA1004730 | F-HEMBA1004730 | 679 | R-HEMBA1004730  | 6200 |
| 25 | HEMBA1004733 | F-HEMBA1004733 | 680 | R-HEMBA1004733  | 6201 |
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|    | HEMBA1004736 | F-HEMBA1004736 | 682 | R-HEMBA1004736  | 6203 |
|    | HEMBA1004748 | F-HEMBA1004748 | 683 | R-HEMBA1004748  | 6204 |
| 30 | HEMBA1004751 | F-HEMBA1004751 | 684 | R-HEMBA1004751  | 6205 |
|    | HEMBA1004752 | F-HEMBA1004752 | 685 | R-HEMBA1004752  | 6206 |
|    | HEMBA1004753 | F-HEMBA1004753 | 686 | R-HEMBA1004753  | 6207 |
|    | HEMBA1004756 | F-HEMBA1004756 | 687 | R-HEMBA1004756  | 6208 |
|    | HEMBA1004758 | F-HEMBA1004758 | 688 | R-HEMBA1004758  | 6209 |
| 35 | HEMBA1004763 | F-HEMBA1004763 | 689 | R-HEMBA1004763  | 6210 |
|    | HEMBA1004768 | F-HEMBA1004768 | 690 | R-HEMBA1004768  | 6211 |
|    | HEMBA1004770 | F-HEMBA1004770 | 691 | R-HEMBA1004770  | 6212 |
|    | HEMBA1004771 | F-HEMBA1004771 | 692 | R-HEMBA1004771  | 6213 |
| 40 | HEMBA1004776 | F-HEMBA1004776 | 693 | R-HEMBA1004776  | 6214 |
|    | HEMBA1004778 | F-HEMBA1004778 | 694 | R-HEMBA1004778  | 6215 |
|    | HEMBA1004795 | F-HEMBA1004795 | 695 | R-nnnnnnnnnnnnn | 6216 |
|    | HEMBA1004803 | F-HEMBA1004803 | 696 | R-HEMBA1004803  | 6217 |
| 45 | HEMBA1004806 | F-HEMBA1004806 | 697 | R-HEMBA1004806  | 6218 |
|    | HEMBA1004807 | F-HEMBA1004807 | 698 | R-HEMBA1004807  | 6219 |
|    | HEMBA1004816 | F-HEMBA1004816 | 699 | R-HEMBA1004816  | 6220 |
|    | HEMBA1004820 | F-HEMBA1004820 | 700 | R-HEMBA1004820  | 6221 |
| 50 | HEMBA1004847 | F-HEMBA1004847 | 701 | R-HEMBA1004847  | 6222 |
|    | HEMBA1004850 | F-HEMBA1004850 | 702 | R-HEMBA1004850  | 6223 |
|    | HEMBA1004863 | F-HEMBA1004863 | 703 | R-HEMBA1004863  | 6224 |
|    | HEMBA1004864 | F-HEMBA1004864 | 704 | R-HEMBA1004864  | 6225 |
| 55 | HEMBA1004865 | F-HEMBA1004865 | 705 | R-HEMBA1004865  | 6226 |

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| 5  | HEMBA1004909 | F-HEMBA1004909 | 709 | R-HEMBA1004909 | 6230 |
|    | HEMBA1004918 | F-HEMBA1004918 | 710 | R-HEMBA1004918 | 6231 |
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|    | HEMBA1004929 | F-HEMBA1004929 | 712 | R-HEMBA1004929 | 6233 |
| 10 | HEMBA1004930 | F-HEMBA1004930 | 713 | R-HEMBA1004930 | 6234 |
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| 15 | HEMBA1004954 | F-HEMBA1004954 | 717 | R-HEMBA1004954 | 6238 |
|    | HEMBA1004956 | F-HEMBA1004956 | 718 | R-HEMBA1004956 | 6239 |
|    | HEMBA1004960 | F-HEMBA1004960 | 719 | R-HEMBA1004960 | 6240 |
|    | HEMBA1004972 | F-HEMBA1004972 | 720 | R-HEMBA1004972 | 6241 |
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| 25 | HEMBA1004983 | F-HEMBA1004983 | 725 | R-HEMBA1004983 | 6246 |
|    | HEMBA1004995 | F-HEMBA1004995 | 726 | R-HEMBA1004995 | 6247 |
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|    | HEMBA1005035 | F-HEMBA1005035 | 731 | R-HEMBA1005035 | 6252 |
|    | HEMBA1005039 | F-HEMBA1005039 | 732 | R-HEMBA1005039 | 6253 |
|    | HEMBA1005047 | F-HEMBA1005047 | 733 | R-HEMBA1005047 | 6254 |
| 35 | HEMBA1005050 | F-HEMBA1005050 | 734 | R-HEMBA1005050 | 6255 |
|    | HEMBA1005062 | F-HEMBA1005062 | 735 | R-HEMBA1005062 | 6256 |
|    | HEMBA1005066 | F-HEMBA1005066 | 736 | R-HEMBA1005066 | 6257 |
|    | HEMBA1005075 | F-HEMBA1005075 | 737 | R-HEMBA1005075 | 6258 |
| 40 | HEMBA1005079 | F-HEMBA1005079 | 738 | R-HEMBA1005079 | 6259 |
|    | HEMBA1005083 | F-HEMBA1005083 | 739 | R-HEMBA1005083 | 6260 |
|    | HEMBA1005101 | F-HEMBA1005101 | 740 | R-HEMBA1005101 | 6261 |
|    | HEMBA1005113 | F-HEMBA1005113 | 741 | R-HEMBA1005113 | 6262 |
|    | HEMBA1005123 | F-HEMBA1005123 | 742 | R-HEMBA1005123 | 6263 |
| 45 | HEMBA1005133 | F-HEMBA1005133 | 743 | R-HEMBA1005133 | 6264 |
|    | HEMBA1005149 | F-HEMBA1005149 | 744 | R-HEMBA1005149 | 6265 |
|    | HEMBA1005152 | F-HEMBA1005152 | 745 | R-HEMBA1005152 | 6266 |
|    | HEMBA1005159 | F-HEMBA1005159 | 746 | R-HEMBA1005159 | 6267 |
| 50 | HEMBA1005185 | F-HEMBA1005185 | 747 | R-HEMBA1005185 | 6268 |
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|    | HEMBA1005202 | F-HEMBA1005202 | 749 | R-HEMBA1005202 | 6270 |
|    | HEMBA1005206 | F-HEMBA1005206 | 750 |                |      |
| 55 | HEMBA1005219 | F-HEMBA1005219 | 751 | R-HEMBA1005219 | 6271 |



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|    | HEMBA1005232 | F-HEMBA1005232 | 753 | R-HEMBA1005232 | 6273 |
|    | HEMBA1005241 | F-HEMBA1005241 | 754 | R-HEMBA1005241 | 6274 |
| 5  | HEMBA1005244 | F-HEMBA1005244 | 755 | R-HEMBA1005244 | 6275 |
|    | HEMBA1005251 | F-HEMBA1005251 | 756 | R-HEMBA1005251 | 6276 |
|    | HEMBA1005252 | F-HEMBA1005252 | 757 | R-HEMBA1005252 | 6277 |
|    | HEMBA1005274 | F-HEMBA1005274 | 758 | R-HEMBA1005274 | 6278 |
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|    | HEMBA1005304 | F-HEMBA1005304 | 762 | R-HEMBA1005304 | 6282 |
| 15 | HEMBA1005311 | F-HEMBA1005311 | 763 | R-HEMBA1005311 | 6283 |
|    | HEMBA1005314 | F-HEMBA1005314 | 764 | R-HEMBA1005314 | 6284 |
|    | HEMBA1005315 | F-HEMBA1005315 | 765 | R-HEMBA1005315 | 6285 |
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| 20 | HEMBA1005331 | F-HEMBA1005331 | 767 | R-HEMBA1005331 | 6287 |
|    | HEMBA1005338 | F-HEMBA1005338 | 768 |                |      |
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|    | HEMBA1005359 | F-HEMBA1005359 | 770 | R-HEMBA1005359 | 6289 |
|    | HEMBA1005367 | F-HEMBA1005367 | 771 | R-HEMBA1005367 | 6290 |
| 25 | HEMBA1005372 | F-HEMBA1005372 | 772 | R-HEMBA1005372 | 6291 |
|    | HEMBA1005374 | F-HEMBA1005374 | 773 | R-HEMBA1005374 | 6292 |
|    | HEMBA1005382 | F-HEMBA1005382 | 774 |                |      |
|    | HEMBA1005389 | F-HEMBA1005389 | 775 | R-HEMBA1005389 | 6293 |
| 30 | HEMBA1005394 | F-HEMBA1005394 | 776 | R-HEMBA1005394 | 6294 |
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|    | HEMBA1005410 | F-HEMBA1005410 | 779 | R-HEMBA1005410 | 6297 |
|    | HEMBA1005411 | F-HEMBA1005411 | 780 | R-HEMBA1005411 | 6298 |
| 35 | HEMBA1005423 | F-HEMBA1005423 | 781 | R-HEMBA1005423 | 6299 |
|    | HEMBA1005426 | F-HEMBA1005426 | 782 | R-HEMBA1005426 | 6300 |
|    | HEMBA1005443 | F-HEMBA1005443 | 783 | R-HEMBA1005443 | 6301 |
|    | HEMBA1005447 | F-HEMBA1005447 | 784 | R-HEMBA1005447 | 6302 |
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|    | HEMBA1005469 | F-HEMBA1005469 | 786 | R-HEMBA1005469 | 6304 |
|    | HEMBA1005472 | F-HEMBA1005472 | 787 | R-HEMBA1005472 | 6305 |
|    | HEMBA1005474 | F-HEMBA1005474 | 788 |                |      |
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|    | HEMBA1005497 | F-HEMBA1005497 | 790 | R-HEMBA1005497 | 6307 |
|    | HEMBA1005500 | F-HEMBA1005500 | 791 | R-HEMBA1005500 | 6308 |
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|    | HEMBA1005513 | F-HEMBA1005513 | 795 |                |      |
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| 55 | HEMBA1005518 | F-HEMBA1005518 | 797 | R-HEMBA1005518 | 6313 |

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|    | HEMBA1005520 | F-HEMBA1005520 | 798 | R-HEMBA1005520  | 6314 |
|    | HEMBA1005526 | F-HEMBA1005526 | 799 | R-HEMBA1005526  | 6315 |
|    | HEMBA1005528 | F-HEMBA1005528 | 800 | R-HEMBA1005528  | 6316 |
| 5  | HEMBA1005530 | F-HEMBA1005530 | 801 | R-HEMBA1005530  | 6317 |
|    | HEMBA1005548 | F-HEMBA1005548 | 802 | R-HEMBA1005548  | 6318 |
|    | HEMBA1005552 | F-HEMBA1005552 | 803 | R-HEMBA1005552  | 6319 |
|    | HEMBA1005558 | F-HEMBA1005558 | 804 | R-HEMBA1005558  | 6320 |
| 10 | HEMBA1005568 | F-HEMBA1005568 | 805 | R-HEMBA1005568  | 6321 |
|    | HEMBA1005570 | F-HEMBA1005570 | 806 | R-HEMBA1005570  | 6322 |
|    | HEMBA1005576 | F-HEMBA1005576 | 807 | R-HEMBA1005576  | 6323 |
|    | HEMBA1005577 | F-HEMBA1005577 | 808 | R-HEMBA1005577  | 6324 |
| 15 | HEMBA1005581 | F-HEMBA1005581 | 809 | R-HEMBA1005581  | 6325 |
|    | HEMBA1005582 | F-HEMBA1005582 | 810 | R-HEMBA1005582  | 6326 |
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|    | HEMBA1005588 | F-HEMBA1005588 | 812 | R-HEMBA1005588  | 6328 |
|    | HEMBA1005593 | F-HEMBA1005593 | 813 | R-HEMBA1005593  | 6329 |
| 20 | HEMBA1005595 | F-HEMBA1005595 | 814 | R-HEMBA1005595  | 6330 |
|    | HEMBA1005606 | F-HEMBA1005606 | 815 | R-HEMBA1005606  | 6331 |
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|    | HEMBA1005632 | F-HEMBA1005632 | 821 | R-HEMBA1005632  | 6337 |
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|    | HEMBA1005666 | F-HEMBA1005666 | 823 | R-HEMBA1005666  | 6339 |
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|    | HEMBA1005815 | F-HEMBA1005815 | 838 | R-HEMBA1005815  | 6354 |
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|    | HEMBA1006926 | F-HEMBA1006926 | 979 | R-HEMBA1006926  | 6493 |
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|    | HEMBB1000048 | F-HEMBB1000048 | 1042 | R-HEMBB1000048 | 6553 |
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|    | HEMBB1000055 | F-HEMBB1000055 | 1045 | R-HEMBB1000055 | 6556 |
|    | HEMBB1000059 | F-HEMBB1000059 | 1046 | R-HEMBB1000059 | 6557 |
|    | HEMBB1000083 | F-HEMBB1000083 | 1047 | R-HEMBB1000083 | 6558 |
| 25 | HEMBB1000089 | F-HEMBB1000089 | 1048 | R-HEMBB1000089 | 6559 |
|    | HEMBB1000099 | F-HEMBB1000099 | 1049 | R-HEMBB1000099 | 6560 |
|    | HEMBB1000103 | F-HEMBB1000103 | 1050 | R-HEMBB1000103 | 6561 |
|    | HEMBB1000113 | F-HEMBB1000113 | 1051 | R-HEMBB1000113 | 6562 |
| 30 | HEMBB1000119 | F-HEMBB1000119 | 1052 | R-HEMBB1000119 | 6563 |
|    | HEMBB1000136 | F-HEMBB1000136 | 1053 | R-HEMBB1000136 | 6564 |
|    | HEMBB1000141 | F-HEMBB1000141 | 1054 | R-HEMBB1000141 | 6565 |
|    | HEMBB1000144 | F-HEMBB1000144 | 1055 | R-HEMBB1000144 | 6566 |
|    | HEMBB1000173 | F-HEMBB1000173 | 1056 | R-HEMBB1000173 | 6567 |
| 35 | HEMBB1000175 | F-HEMBB1000175 | 1057 | R-HEMBB1000175 | 6568 |
|    | HEMBB1000198 | F-HEMBB1000198 | 1058 | R-HEMBB1000198 | 6569 |
|    | HEMBB1000215 | F-HEMBB1000215 | 1059 | R-HEMBB1000215 | 6570 |
|    | HEMBB1000217 | F-HEMBB1000217 | 1060 | R-HEMBB1000217 | 6571 |
| 40 | HEMBB1000218 | F-HEMBB1000218 | 1061 | R-HEMBB1000218 | 6572 |
|    | HEMBB1000226 | F-HEMBB1000226 | 1062 | R-HEMBB1000226 | 6573 |
|    | HEMBB1000240 | F-HEMBB1000240 | 1063 | R-HEMBB1000240 | 6574 |
|    | HEMBB1000244 | F-HEMBB1000244 | 1064 | R-HEMBB1000244 | 6575 |
| 45 | HEMBB1000250 | F-HEMBB1000250 | 1065 | R-HEMBB1000250 | 6576 |
|    | HEMBB1000258 | F-HEMBB1000258 | 1066 | R-HEMBB1000258 | 6577 |
|    | HEMBB1000264 | F-HEMBB1000264 | 1067 | R-HEMBB1000264 | 6578 |
|    | HEMBB1000266 | F-HEMBB1000266 | 1068 | R-HEMBB1000266 | 6579 |
|    | HEMBB1000272 | F-HEMBB1000272 | 1069 | R-HEMBB1000272 | 6580 |
| 50 | HEMBB1000274 | F-HEMBB1000274 | 1070 | R-HEMBB1000274 | 6581 |
|    | HEMBB1000284 | F-HEMBB1000284 | 1071 | R-HEMBB1000284 | 6582 |
|    | HEMBB1000307 | F-HEMBB1000307 | 1072 | R-HEMBB1000307 | 6583 |
|    | HEMBB1000312 | F-HEMBB1000312 | 1073 | R-HEMBB1000312 | 6584 |

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|    | HEMBB1000318 | F-HEMBB1000318 | 1075 | R-HEMBB1000318 | 6586 |
|    | HEMBB1000335 | F-HEMBB1000335 | 1076 | R-HEMBB1000335 | 6587 |
| 5  | HEMBB1000336 | F-HEMBB1000336 | 1077 | R-HEMBB1000336 | 6588 |
|    | HEMBB1000337 | F-HEMBB1000337 | 1078 | R-HEMBB1000337 | 6589 |
|    | HEMBB1000338 | F-HEMBB1000338 | 1079 | R-HEMBB1000338 | 6590 |
|    | HEMBB1000339 | F-HEMBB1000339 | 1080 | R-HEMBB1000339 | 6591 |
| 10 | HEMBB1000341 | F-HEMBB1000341 | 1081 | R-HEMBB1000341 | 6592 |
|    | HEMBB1000343 | F-HEMBB1000343 | 1082 | R-HEMBB1000343 | 6593 |
|    | HEMBB1000354 | F-HEMBB1000354 | 1083 | R-HEMBB1000354 | 6594 |
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|    | HEMBB1000391 | F-HEMBB1000391 | 1087 | R-HEMBB1000391 | 6598 |
|    | HEMBB1000399 | F-HEMBB1000399 | 1088 | R-HEMBB1000399 | 6599 |
|    | HEMBB1000402 | F-HEMBB1000402 | 1089 | R-HEMBB1000402 | 6600 |
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|    | HEMBB1000420 | F-HEMBB1000420 | 1091 | R-HEMBB1000420 | 6602 |
|    | HEMBB1000434 | F-HEMBB1000434 | 1092 | R-HEMBB1000434 | 6603 |
|    | HEMBB1000438 | F-HEMBB1000438 | 1093 | R-HEMBB1000438 | 6604 |
| 25 | HEMBB1000441 | F-HEMBB1000441 | 1094 | R-HEMBB1000441 | 6605 |
|    | HEMBB1000449 | F-HEMBB1000449 | 1095 | R-HEMBB1000449 | 6606 |
|    | HEMBB1000455 | F-HEMBB1000455 | 1096 | R-HEMBB1000455 | 6607 |
|    | HEMBB1000472 | F-HEMBB1000472 | 1097 | R-HEMBB1000472 | 6608 |
| 30 | HEMBB1000480 | F-HEMBB1000480 | 1098 | R-HEMBB1000480 | 6609 |
|    | HEMBB1000487 | F-HEMBB1000487 | 1099 | R-HEMBB1000487 | 6610 |
|    | HEMBB1000490 | F-HEMBB1000490 | 1100 | R-HEMBB1000490 | 6611 |
|    | HEMBB1000491 | F-HEMBB1000491 | 1101 | R-HEMBB1000491 | 6612 |
|    | HEMBB1000493 | F-HEMBB1000493 | 1102 | R-HEMBB1000493 | 6613 |
| 35 | HEMBB1000510 | F-HEMBB1000510 | 1103 | R-HEMBB1000510 | 6614 |
|    | HEMBB1000518 | F-HEMBB1000518 | 1104 | R-HEMBB1000518 | 6615 |
|    | HEMBB1000523 | F-HEMBB1000523 | 1105 | R-HEMBB1000523 | 6616 |
|    | HEMBB1000530 | F-HEMBB1000530 | 1106 | R-HEMBB1000530 | 6617 |
| 40 | HEMBB1000550 | F-HEMBB1000550 | 1107 | R-HEMBB1000550 | 6618 |
|    | HEMBB1000554 | F-HEMBB1000554 | 1108 | R-HEMBB1000554 | 6619 |
|    | HEMBB1000556 | F-HEMBB1000556 | 1109 | R-HEMBB1000556 | 6620 |
|    | HEMBB1000564 | F-HEMBB1000564 | 1110 | R-HEMBB1000564 | 6621 |
| 45 | HEMBB1000573 | F-HEMBB1000573 | 1111 | R-HEMBB1000573 | 6622 |
|    | HEMBB1000575 | F-HEMBB1000575 | 1112 | R-HEMBB1000575 | 6623 |
|    | HEMBB1000586 | F-HEMBB1000586 | 1113 | R-HEMBB1000586 | 6624 |
|    | HEMBB1000589 | F-HEMBB1000589 | 1114 | R-HEMBB1000589 | 6625 |
|    | HEMBB1000591 | F-HEMBB1000591 | 1115 | R-HEMBB1000591 | 6626 |
| 50 | HEMBB1000592 | F-HEMBB1000592 | 1116 | R-HEMBB1000592 | 6627 |
|    | HEMBB1000593 | F-HEMBB1000593 | 1117 |                |      |
|    | HEMBB1000598 | F-HEMBB1000598 | 1118 | R-HEMBB1000598 | 6628 |
|    | HEMBB1000623 | F-HEMBB1000623 | 1119 | R-HEMBB1000623 | 6629 |
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|    | HEMBB1000631 | F-HEMBB1000631 | 1121 | R-HEMBB1000631  | 6631 |
|    | HEMBB1000632 | F-HEMBB1000632 | 1122 | R-HEMBB1000632  | 6632 |
| 5  | HEMBB1000637 | F-HEMBB1000637 | 1123 | R-HEMBB1000637  | 6633 |
|    | HEMBB1000638 | F-HEMBB1000638 | 1124 | R-HEMBB1000638  | 6634 |
|    | HEMBB1000643 | F-HEMBB1000643 | 1125 | R-HEMBB1000643  | 6635 |
|    | HEMBB1000649 | F-HEMBB1000649 | 1126 | R-HEMBB1000649  | 6636 |
| 10 | HEMBB1000652 | F-HEMBB1000652 | 1127 | R-HEMBB1000652  | 6637 |
|    | HEMBB1000665 | F-HEMBB1000665 | 1128 | R-HEMBB1000665  | 6638 |
|    | HEMBB1000671 | F-HEMBB1000671 | 1129 | R-HEMBB1000671  | 6639 |
|    | HEMBB1000673 | F-HEMBB1000673 | 1130 | R-HEMBB1000673  | 6640 |
| 15 | HEMBB1000684 | F-HEMBB1000684 | 1131 | R-HEMBB1000684  | 6641 |
|    | HEMBB1000693 | F-HEMBB1000693 | 1132 | R-nnnnnnnnnnnnn | 6642 |
|    | HEMBB1000705 | F-HEMBB1000705 | 1133 | R-HEMBB1000705  | 6643 |
|    | HEMBB1000706 | F-HEMBB1000706 | 1134 | R-HEMBB1000706  | 6644 |
| 20 | HEMBB1000709 | F-HEMBB1000709 | 1135 | R-HEMBB1000709  | 6645 |
|    | HEMBB1000725 | F-HEMBB1000725 | 1136 | R-HEMBB1000725  | 6646 |
|    | HEMBB1000726 | F-HEMBB1000726 | 1137 | R-HEMBB1000726  | 6647 |
|    | HEMBB1000738 | F-HEMBB1000738 | 1138 | R-HEMBB1000738  | 6648 |
|    | HEMBB1000749 | F-HEMBB1000749 | 1139 | R-HEMBB1000749  | 6649 |
| 25 | HEMBB1000763 | F-HEMBB1000763 | 1140 | R-HEMBB1000763  | 6650 |
|    | HEMBB1000770 | F-HEMBB1000770 | 1141 | R-HEMBB1000770  | 6651 |
|    | HEMBB1000774 | F-HEMBB1000774 | 1142 |                 |      |
|    | HEMBB1000781 | F-HEMBB1000781 | 1143 | R-HEMBB1000781  | 6652 |
| 30 | HEMBB1000789 | F-HEMBB1000789 | 1144 | R-HEMBB1000789  | 6653 |
|    | HEMBB1000790 | F-HEMBB1000790 | 1145 | R-HEMBB1000790  | 6654 |
|    | HEMBB1000794 | F-HEMBB1000794 | 1146 | R-HEMBB1000794  | 6655 |
|    | HEMBB1000807 | F-HEMBB1000807 | 1147 | R-HEMBB1000807  | 6656 |
| 35 | HEMBB1000810 | F-HEMBB1000810 | 1148 | R-HEMBB1000810  | 6657 |
|    | HEMBB1000821 | F-HEMBB1000821 | 1149 | R-HEMBB1000821  | 6658 |
|    | HEMBB1000822 | F-HEMBB1000822 | 1150 | R-HEMBB1000822  | 6659 |
|    | HEMBB1000826 | F-HEMBB1000826 | 1151 | R-HEMBB1000826  | 6660 |
| 40 | HEMBB1000827 | F-HEMBB1000827 | 1152 | R-HEMBB1000827  | 6661 |
|    | HEMBB1000831 | F-HEMBB1000831 | 1153 | R-HEMBB1000831  | 6662 |
|    | HEMBB1000835 | F-HEMBB1000835 | 1154 | R-HEMBB1000835  | 6663 |
|    | HEMBB1000840 | F-HEMBB1000840 | 1155 | R-HEMBB1000840  | 6664 |
|    | HEMBB1000848 | F-HEMBB1000848 | 1156 | R-HEMBB1000848  | 6665 |
| 45 | HEMBB1000852 | F-HEMBB1000852 | 1157 | R-HEMBB1000852  | 6666 |
|    | HEMBB1000870 | F-HEMBB1000870 | 1158 | R-HEMBB1000870  | 6667 |
|    | HEMBB1000876 | F-HEMBB1000876 | 1159 | R-HEMBB1000876  | 6668 |
|    | HEMBB1000883 | F-HEMBB1000883 | 1160 | R-HEMBB1000883  | 6669 |
| 50 | HEMBB1000887 | F-HEMBB1000887 | 1161 | R-HEMBB1000887  | 6670 |
|    | HEMBB1000888 | F-HEMBB1000888 | 1162 | R-HEMBB1000888  | 6671 |
|    | HEMBB1000890 | F-HEMBB1000890 | 1163 | R-HEMBB1000890  | 6672 |
|    | HEMBB1000893 | F-HEMBB1000893 | 1164 | R-HEMBB1000893  | 6673 |
| 55 | HEMBB1000908 | F-HEMBB1000908 | 1165 | R-HEMBB1000908  | 6674 |

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|    | HEMBB1000910 | F-HEMBB1000910 | 1166 | R-HEMBB1000910  | 6675 |
|    | HEMBB1000913 | F-HEMBB1000913 | 1167 | R-HEMBB1000913  | 6676 |
|    | HEMBB1000915 | F-HEMBB1000915 | 1168 | R-HEMBB1000915  | 6677 |
| 5  | HEMBB1000917 | F-HEMBB1000917 | 1169 | R-HEMBB1000917  | 6678 |
|    | HEMBB1000927 | F-HEMBB1000927 | 1170 | R-HEMBB1000927  | 6679 |
|    | HEMBB1000947 | F-HEMBB1000947 | 1171 | R-HEMBB1000947  | 6680 |
|    | HEMBB1000959 | F-HEMBB1000959 | 1172 | R-HEMBB1000959  | 6681 |
| 10 | HEMBB1000973 | F-HEMBB1000973 | 1173 | R-HEMBB1000973  | 6682 |
|    | HEMBB1000975 | F-HEMBB1000975 | 1174 | R-HEMBB1000975  | 6683 |
|    | HEMBB1000981 | F-HEMBB1000981 | 1175 | R-HEMBB1000981  | 6684 |
|    | HEMBB1000985 | F-HEMBB1000985 | 1176 | R-HEMBB1000985  | 6685 |
| 15 | HEMBB1000991 | F-HEMBB1000991 | 1177 | R-HEMBB1000991  | 6686 |
|    | HEMBB1000996 | F-HEMBB1000996 | 1178 | R-HEMBB1000996  | 6687 |
|    | HEMBB1001004 | F-HEMBB1001004 | 1179 | R-HEMBB1001004  | 6688 |
|    | HEMBB1001008 | F-HEMBB1001008 | 1180 | R-HEMBB1001008  | 6689 |
| 20 | HEMBB1001011 | F-HEMBB1001011 | 1181 | R-HEMBB1001011  | 6690 |
|    | HEMBB1001014 | F-HEMBB1001014 | 1182 | R-HEMBB1001014  | 6691 |
|    | HEMBB1001020 | F-HEMBB1001020 | 1183 | R-HEMBB1001020  | 6692 |
|    | HEMBB1001024 | F-HEMBB1001024 | 1184 | R-HEMBB1001024  | 6693 |
| 25 | HEMBB1001037 | F-HEMBB1001037 | 1185 | R-HEMBB1001037  | 6694 |
|    | HEMBB1001047 | F-HEMBB1001047 | 1186 | R-HEMBB1001047  | 6695 |
|    | HEMBB1001051 | F-HEMBB1001051 | 1187 | R-HEMBB1001051  | 6696 |
|    | HEMBB1001056 | F-HEMBB1001056 | 1188 | R-HEMBB1001056  | 6697 |
| 30 | HEMBB1001058 | F-HEMBB1001058 | 1189 | R-HEMBB1001058  | 6698 |
|    | HEMBB1001060 | F-HEMBB1001060 | 1190 | R-HEMBB1001060  | 6699 |
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|    | HEMBB1001068 | F-HEMBB1001068 | 1192 | R-HEMBB1001068  | 6701 |
| 35 | HEMBB1001096 | F-HEMBB1001096 | 1193 | R-HEMBB1001096  | 6702 |
|    | HEMBB1001102 | F-HEMBB1001102 | 1194 | R-HEMBB1001102  | 6703 |
|    | HEMBB1001105 | F-HEMBB1001105 | 1195 | R-HEMBB1001105  | 6704 |
|    | HEMBB1001112 | F-HEMBB1001112 | 1196 |                 |      |
|    | HEMBB1001114 | F-HEMBB1001114 | 1197 | R-HEMBB1001114  | 6705 |
| 40 | HEMBB1001117 | F-HEMBB1001117 | 1198 | R-HEMBB1001117  | 6706 |
|    | HEMBB1001119 | F-HEMBB1001119 | 1199 | R-HEMBB1001119  | 6707 |
|    | HEMBB1001126 | F-HEMBB1001126 | 1200 | R-HEMBB1001126  | 6708 |
|    | HEMBB1001133 | F-HEMBB1001133 | 1201 | R-HEMBB1001133  | 6709 |
| 45 | HEMBB1001137 | F-HEMBB1001137 | 1202 | R-HEMBB1001137  | 6710 |
|    | HEMBB1001142 | F-HEMBB1001142 | 1203 | R-HEMBB1001142  | 6711 |
|    | HEMBB1001151 | F-HEMBB1001151 | 1204 | R-HEMBB1001151  | 6712 |
|    | HEMBB1001153 | F-HEMBB1001153 | 1205 | R-HEMBB1001153  | 6713 |
| 50 | HEMBB1001169 | F-HEMBB1001169 | 1206 | R-HEMBB1001169  | 6714 |
|    | HEMBB1001175 | F-HEMBB1001175 | 1207 | R-nnnnnnnnnnnnn | 6715 |
|    | HEMBB1001177 | F-HEMBB1001177 | 1208 | R-HEMBB1001177  | 6716 |
|    | HEMBB1001182 | F-HEMBB1001182 | 1209 | R-HEMBB1001182  | 6717 |
|    | HEMBB1001199 | F-HEMBB1001199 | 1210 | R-HEMBB1001199  | 6718 |
| 55 | HEMBB1001208 | F-HEMBB1001208 | 1211 | R-HEMBB1001208  | 6719 |

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|    | HEMBB1001210 | F-HEMBB1001210 | 1213 | R-HEMBB1001210 | 6721 |
|    | HEMBB1001218 | F-HEMBB1001218 | 1214 | R-HEMBB1001218 | 6722 |
| 5  | HEMBB1001221 | F-HEMBB1001221 | 1215 | R-HEMBB1001221 | 6723 |
|    | HEMBB1001234 | F-HEMBB1001234 | 1216 | R-HEMBB1001234 | 6724 |
|    | HEMBB1001242 | F-HEMBB1001242 | 1217 | R-HEMBB1001242 | 6725 |
|    | HEMBB1001249 | F-HEMBB1001249 | 1218 | R-HEMBB1001249 | 6726 |
| 10 | HEMBB1001253 | F-HEMBB1001253 | 1219 | R-HEMBB1001253 | 6727 |
|    | HEMBB1001254 | F-HEMBB1001254 | 1220 | R-HEMBB1001254 | 6728 |
|    | HEMBB1001267 | F-HEMBB1001267 | 1221 | R-HEMBB1001267 | 6729 |
|    | HEMBB1001271 | F-HEMBB1001271 | 1222 | R-HEMBB1001271 | 6730 |
| 15 | HEMBB1001282 | F-HEMBB1001282 | 1223 | R-HEMBB1001282 | 6731 |
|    | HEMBB1001288 | F-HEMBB1001288 | 1224 | R-HEMBB1001288 | 6732 |
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|    | HEMBB1001294 | F-HEMBB1001294 | 1226 | R-HEMBB1001294 | 6734 |
| 20 | HEMBB1001302 | F-HEMBB1001302 | 1227 | R-HEMBB1001302 | 6735 |
|    | HEMBB1001304 | F-HEMBB1001304 | 1228 | R-HEMBB1001304 | 6736 |
|    | HEMBB1001314 | F-HEMBB1001314 | 1229 | R-HEMBB1001314 | 6737 |
|    | HEMBB1001315 | F-HEMBB1001315 | 1230 | R-HEMBB1001315 | 6738 |
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|    | HEMBB1001326 | F-HEMBB1001326 | 1232 | R-HEMBB1001326 | 6740 |
|    | HEMBB1001331 | F-HEMBB1001331 | 1233 | R-HEMBB1001331 | 6741 |
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|    | HEMBB1001346 | F-HEMBB1001346 | 1237 | R-HEMBB1001346 | 6745 |
|    | HEMBB1001348 | F-HEMBB1001348 | 1238 | R-HEMBB1001348 | 6746 |
|    | HEMBB1001356 | F-HEMBB1001356 | 1239 | R-HEMBB1001356 | 6747 |
| 35 | HEMBB1001364 | F-HEMBB1001364 | 1240 | R-HEMBB1001364 | 6748 |
|    | HEMBB1001366 | F-HEMBB1001366 | 1241 | R-HEMBB1001366 | 6749 |
|    | HEMBB1001367 | F-HEMBB1001367 | 1242 | R-HEMBB1001367 | 6750 |
|    | HEMBB1001369 | F-HEMBB1001369 | 1243 | R-HEMBB1001369 | 6751 |
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|    | HEMBB1001384 | F-HEMBB1001384 | 1245 | R-HEMBB1001384 | 6753 |
|    | HEMBB1001387 | F-HEMBB1001387 | 1246 | R-HEMBB1001387 | 6754 |
|    | HEMBB1001394 | F-HEMBB1001394 | 1247 | R-HEMBB1001394 | 6755 |
| 45 | HEMBB1001410 | F-HEMBB1001410 | 1248 | R-HEMBB1001410 | 6756 |
|    | HEMBB1001424 | F-HEMBB1001424 | 1249 | R-HEMBB1001424 | 6757 |
|    | HEMBB1001426 | F-HEMBB1001426 | 1250 | R-HEMBB1001426 | 6758 |
|    | HEMBB1001429 | F-HEMBB1001429 | 1251 | R-HEMBB1001429 | 6759 |
| 50 | HEMBB1001436 | F-HEMBB1001436 | 1252 | R-HEMBB1001436 | 6760 |
|    | HEMBB1001443 | F-HEMBB1001443 | 1253 | R-HEMBB1001443 | 6761 |
|    | HEMBB1001449 | F-HEMBB1001449 | 1254 | R-HEMBB1001449 | 6762 |
|    | HEMBB1001454 | F-HEMBB1001454 | 1255 | R-HEMBB1001454 | 6763 |
|    | HEMBB1001458 | F-HEMBB1001458 | 1256 | R-HEMBB1001458 | 6764 |
| 55 | HEMBB1001463 | F-HEMBB1001463 | 1257 | R-HEMBB1001463 | 6765 |

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|    | HEMBB1001482 | F-HEMBB1001482 | 1259 | R-HEMBB1001482 | 6767 |
|    | HEMBB1001500 | F-HEMBB1001500 | 1260 | R-HEMBB1001500 | 6768 |
| 5  | HEMBB1001521 | F-HEMBB1001521 | 1261 | R-HEMBB1001521 | 6769 |
|    | HEMBB1001527 | F-HEMBB1001527 | 1262 | R-HEMBB1001527 | 6770 |
|    | HEMBB1001531 | F-HEMBB1001531 | 1263 | R-HEMBB1001531 | 6771 |
|    | HEMBB1001535 | F-HEMBB1001535 | 1264 | R-HEMBB1001535 | 6772 |
| 10 | HEMBB1001536 | F-HEMBB1001536 | 1265 | R-HEMBB1001536 | 6773 |
|    | HEMBB1001537 | F-HEMBB1001537 | 1266 | R-HEMBB1001537 | 6774 |
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|    | HEMBB1001562 | F-HEMBB1001562 | 1268 | R-HEMBB1001562 | 6776 |
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|    | HEMBB1001619 | F-HEMBB1001619 | 1276 | R-HEMBB1001619 | 6784 |
|    | HEMBB1001630 | F-HEMBB1001630 | 1277 | R-HEMBB1001630 | 6785 |
| 25 | HEMBB1001635 | F-HEMBB1001635 | 1278 | R-HEMBB1001635 | 6786 |
|    | HEMBB1001637 | F-HEMBB1001637 | 1279 | R-HEMBB1001637 | 6787 |
|    | HEMBB1001641 | F-HEMBB1001641 | 1280 | R-HEMBB1001641 | 6788 |
|    | HEMBB1001653 | F-HEMBB1001653 | 1281 | R-HEMBB1001653 | 6789 |
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|    | HEMBB1001668 | F-HEMBB1001668 | 1283 | R-HEMBB1001668 | 6791 |
|    | HEMBB1001673 | F-HEMBB1001673 | 1284 | R-HEMBB1001673 | 6792 |
|    | HEMBB1001684 | F-HEMBB1001684 | 1285 | R-HEMBB1001684 | 6793 |
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|    | HEMBB1001704 | F-HEMBB1001704 | 1288 | R-HEMBB1001704 | 6796 |
|    | HEMBB1001706 | F-HEMBB1001706 | 1289 | R-HEMBB1001706 | 6797 |
| 40 | HEMBB1001707 | F-HEMBB1001707 | 1290 | R-HEMBB1001707 | 6798 |
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|    | HEMBB1001756 | F-HEMBB1001756 | 1297 | R-HEMBB1001756 | 6805 |
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|    | HEMBB1001797 | F-HEMBB1001797 | 1301 | R-HEMBB1001797 | 6809 |
|    | HEMBB1001802 | F-HEMBB1001802 | 1302 | R-HEMBB1001802 | 6810 |
| 55 | HEMBB1001812 | F-HEMBB1001812 | 1303 | R-HEMBB1001812 | 6811 |

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|    | HEMBB1001831 | F-HEMBB1001831 | 1305 | R-HEMBB1001831 | 6813 |
|    | HEMBB1001834 | F-HEMBB1001834 | 1306 |                |      |
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|    | HEMBB1001839 | F-HEMBB1001839 | 1308 | R-HEMBB1001839 | 6815 |
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| 35 | HEMBB1001950 | F-HEMBB1001950 | 1332 | R-HEMBB1001950 | 6839 |
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| 40 | HEMBB1001962 | F-HEMBB1001962 | 1336 | R-HEMBB1001962 | 6843 |
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|    | HEMBB1002009 | F-HEMBB1002009 | 1346 | R-HEMBB1002009 | 6853 |
|    | HEMBB1002015 | F-HEMBB1002015 | 1347 | R-HEMBB1002015 | 6854 |
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| 55 | HEMBB1002043 | F-HEMBB1002043 | 1349 | R-HEMBB1002043 | 6856 |

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|    | HEMBB1002232 | F-HEMBB1002232 | 1368 | R-HEMBB1002232 | 6874 |
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|    | HEMBB1002306 | F-HEMBB1002306 | 1376 | R-HEMBB1002306 | 6882 |
|    | HEMBB1002327 | F-HEMBB1002327 | 1377 | R-HEMBB1002327 | 6883 |
| 35 | HEMBB1002329 | F-HEMBB1002329 | 1378 | R-HEMBB1002329 | 6884 |
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|    | HEMBB1002342 | F-HEMBB1002342 | 1380 | R-HEMBB1002342 | 6886 |
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|    | HEMBB1002364 | F-HEMBB1002364 | 1383 | R-HEMBB1002364 | 6889 |
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|    | HEMBB1002381 | F-HEMBB1002381 | 1385 | R-HEMBB1002381 | 6891 |
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|    | HEMBB1002409 | F-HEMBB1002409 | 1388 |                |      |
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|    | HEMBB1002453 | F-HEMBB1002453 | 1392 | R-HEMBB1002453 | 6897 |
|    | HEMBB1002457 | F-HEMBB1002457 | 1393 | R-HEMBB1002457 | 6898 |
|    | HEMBB1002458 | F-HEMBB1002458 | 1394 | R-HEMBB1002458 | 6899 |
| 55 | HEMBB1002477 | F-HEMBB1002477 | 1395 | R-HEMBB1002477 | 6900 |

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|    | HEMBB1002623 | F-HEMBB1002623 | 1421 | R-HEMBB1002623 | 6926 |
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|    | MAMMA1000043 | F-MAMMA1000043 | 1438 | R-MAMMA1000043 | 6943 |
|    | MAMMA1000045 | F-MAMMA1000045 | 1439 | R-MAMMA1000045 | 6944 |
|    | MAMMA1000055 | F-MAMMA1000055 | 1440 | R-MAMMA1000055 | 6945 |
| 55 | MAMMA1000057 | F-MAMMA1000057 | 1441 | R-MAMMA1000057 | 6946 |

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|    | MAMMA1000085 | F-MAMMA1000085 | 1444 | R-MAMMA1000085 | 6949 |
| 5  | MAMMA1000092 | F-MAMMA1000092 | 1445 | R-MAMMA1000092 | 6950 |
|    | MAMMA1000103 | F-MAMMA1000103 | 1446 | R-MAMMA1000103 | 6951 |
|    | MAMMA1000117 | F-MAMMA1000117 | 1447 | R-MAMMA1000117 | 6952 |
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| 10 | MAMMA1000133 | F-MAMMA1000133 | 1449 | R-MAMMA1000133 | 6954 |
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|    | MAMMA1000139 | F-MAMMA1000139 | 1451 | R-MAMMA1000139 | 6956 |
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|    | MAMMA1000171 | F-MAMMA1000171 | 1455 | R-MAMMA1000171 | 6960 |
|    | MAMMA1000173 | F-MAMMA1000173 | 1456 | R-MAMMA1000173 | 6961 |
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|    | MAMMA1000270 | F-MAMMA1000270 | 1468 | R-MAMMA1000270 | 6973 |
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|    | MAMMA1000284 | F-MAMMA1000284 | 1472 | R-MAMMA1000284 | 6977 |
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|    | MAMMA1000312 | F-MAMMA1000312 | 1477 | R-MAMMA1000312 | 6982 |
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| 45 | MAMMA1000331 | F-MAMMA1000331 | 1479 | R-MAMMA1000331 | 6984 |
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|    | MAMMA1000348 | F-MAMMA1000348 | 1482 | R-MAMMA1000348 | 6987 |
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|    | MAMMA1000372 | F-MAMMA1000372 | 1486 | R-MAMMA1000372 | 6991 |
| 55 | MAMMA1000385 | F-MAMMA1000385 | 1487 | R-MAMMA1000385 | 6992 |



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|    | MAMMA1000402 | F-MAMMA1000402 | 1490 | R-MAMMA1000402 | 6995 |
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|    | MAMMA1000413 | F-MAMMA1000413 | 1492 | R-MAMMA1000413 | 6997 |
|    | MAMMA1000414 | F-MAMMA1000414 | 1493 | R-MAMMA1000414 | 6998 |
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|    | MAMMA1001836 | F-MAMMA1001836 | 1722 | R-MAMMA1001836  | 7222 |
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| 10 | MAMMA1001851 | F-MAMMA1001851 | 1725 | R-MAMMA1001851  | 7225 |
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| 15 | MAMMA1001868 | F-MAMMA1001868 | 1729 | R-nnnnnnnnnnnnn | 7229 |
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|    | MAMMA1001878 | F-MAMMA1001878 | 1731 | R-MAMMA1001878  | 7231 |
|    | MAMMA1001880 | F-MAMMA1001880 | 1732 | R-MAMMA1001880  | 7232 |
| 20 | MAMMA1001890 | F-MAMMA1001890 | 1733 | R-MAMMA1001890  | 7233 |
|    | MAMMA1001907 | F-MAMMA1001907 | 1734 | R-MAMMA1001907  | 7234 |
|    | MAMMA1001908 | F-MAMMA1001908 | 1735 | R-nnnnnnnnnnnnn | 7235 |
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| 25 | MAMMA1001963 | F-MAMMA1001963 | 1738 | R-MAMMA1001963  | 7238 |
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|    | MAMMA1001992 | F-MAMMA1001992 | 1741 | R-MAMMA1001992  | 7241 |
| 30 | MAMMA1002009 | F-MAMMA1002009 | 1742 | R-MAMMA1002009  | 7242 |
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| 35 | MAMMA1002041 | F-MAMMA1002041 | 1746 | R-MAMMA1002041  | 7246 |
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|    | MAMMA1002047 | F-MAMMA1002047 | 1748 | R-MAMMA1002047  | 7248 |
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|    | MAMMA1002082 | F-MAMMA1002082 | 1753 | R-MAMMA1002082  | 7253 |
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| 45 | MAMMA1002093 | F-MAMMA1002093 | 1755 | R-MAMMA1002093  | 7255 |
|    | MAMMA1002108 | F-MAMMA1002108 | 1756 | R-MAMMA1002108  | 7256 |
|    | MAMMA1002118 | F-MAMMA1002118 | 1757 | R-MAMMA1002118  | 7257 |
|    | MAMMA1002125 | F-MAMMA1002125 | 1758 | R-MAMMA1002125  | 7258 |
| 50 | MAMMA1002132 | F-MAMMA1002132 | 1759 | R-MAMMA1002132  | 7259 |
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|    | MAMMA1002143 | F-MAMMA1002143 | 1761 | R-MAMMA1002143  | 7261 |
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| 55 | MAMMA1002153 | F-MAMMA1002153 | 1763 | R-MAMMA1002153  | 7263 |

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|    | MAMMA1002155 | F-MAMMA1002155 | 1764 | R-MAMMA1002155 | 7264 |
|    | MAMMA1002156 | F-MAMMA1002156 | 1765 | R-MAMMA1002156 | 7265 |
|    | MAMMA1002158 | F-MAMMA1002158 | 1766 | R-MAMMA1002158 | 7266 |
| 5  | MAMMA1002170 | F-MAMMA1002170 | 1767 | R-MAMMA1002170 | 7267 |
|    | MAMMA1002174 | F-MAMMA1002174 | 1768 | R-MAMMA1002174 | 7268 |
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|    | MAMMA1002236 | F-MAMMA1002236 | 1774 | R-MAMMA1002236 | 7274 |
| 15 | MAMMA1002243 | F-MAMMA1002243 | 1775 | R-MAMMA1002243 | 7275 |
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| 30 | MAMMA1002308 | F-MAMMA1002308 | 1787 | R-MAMMA1002308 | 7287 |
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|    | MAMMA1002311 | F-MAMMA1002311 | 1789 | R-MAMMA1002311 | 7289 |
|    | MAMMA1002312 | F-MAMMA1002312 | 1790 | R-MAMMA1002312 | 7290 |
|    | MAMMA1002317 | F-MAMMA1002317 | 1791 | R-MAMMA1002317 | 7291 |
| 35 | MAMMA1002319 | F-MAMMA1002319 | 1792 | R-MAMMA1002319 | 7292 |
|    | MAMMA1002322 | F-MAMMA1002322 | 1793 | R-MAMMA1002322 | 7293 |
|    | MAMMA1002329 | F-MAMMA1002329 | 1794 | R-MAMMA1002329 | 7294 |
|    | MAMMA1002332 | F-MAMMA1002332 | 1795 | R-MAMMA1002332 | 7295 |
| 40 | MAMMA1002333 | F-MAMMA1002333 | 1796 | R-MAMMA1002333 | 7296 |
|    | MAMMA1002339 | F-MAMMA1002339 | 1797 | R-MAMMA1002339 | 7297 |
|    | MAMMA1002347 | F-MAMMA1002347 | 1798 | R-MAMMA1002347 | 7298 |
|    | MAMMA1002351 | F-MAMMA1002351 | 1799 | R-MAMMA1002351 | 7299 |
| 45 | MAMMA1002352 | F-MAMMA1002352 | 1800 | R-MAMMA1002352 | 7300 |
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|    | MAMMA1002355 | F-MAMMA1002355 | 1802 | R-MAMMA1002355 | 7302 |
|    | MAMMA1002356 | F-MAMMA1002356 | 1803 | R-MAMMA1002356 | 7303 |
|    | MAMMA1002359 | F-MAMMA1002359 | 1804 | R-MAMMA1002359 | 7304 |
| 50 | MAMMA1002360 | F-MAMMA1002360 | 1805 | R-MAMMA1002360 | 7305 |
|    | MAMMA1002361 | F-MAMMA1002361 | 1806 | R-MAMMA1002361 | 7306 |
|    | MAMMA1002362 | F-MAMMA1002362 | 1807 | R-MAMMA1002362 | 7307 |
|    | MAMMA1002380 | F-MAMMA1002380 | 1808 | R-MAMMA1002380 | 7308 |
| 55 | MAMMA1002384 | F-MAMMA1002384 | 1809 | R-MAMMA1002384 | 7309 |

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|    | MAMMA1002417 | F-MAMMA1002417 | 1814 | R-MAMMA1002417 | 7314 |
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| 10 | MAMMA1002434 | F-MAMMA1002434 | 1817 | R-MAMMA1002434 | 7317 |
|    | MAMMA1002446 | F-MAMMA1002446 | 1818 | R-MAMMA1002446 | 7318 |
|    | MAMMA1002454 | F-MAMMA1002454 | 1819 | R-MAMMA1002454 | 7319 |
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| 15 | MAMMA1002470 | F-MAMMA1002470 | 1821 | R-MAMMA1002470 | 7321 |
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|    | MAMMA1002480 | F-MAMMA1002480 | 1823 | R-MAMMA1002480 | 7323 |
|    | MAMMA1002485 | F-MAMMA1002485 | 1824 | R-MAMMA1002485 | 7324 |
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|    | MAMMA1002498 | F-MAMMA1002498 | 1826 | R-MAMMA1002498 | 7326 |
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| 25 | MAMMA1002554 | F-MAMMA1002554 | 1830 | R-MAMMA1002554 | 7330 |
|    | MAMMA1002556 | F-MAMMA1002556 | 1831 | R-MAMMA1002556 | 7331 |
|    | MAMMA1002566 | F-MAMMA1002566 | 1832 | R-MAMMA1002566 | 7332 |
|    | MAMMA1002571 | F-MAMMA1002571 | 1833 | R-MAMMA1002571 | 7333 |
| 30 | MAMMA1002573 | F-MAMMA1002573 | 1834 | R-MAMMA1002573 | 7334 |
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|    | MAMMA1002590 | F-MAMMA1002590 | 1836 | R-MAMMA1002590 | 7336 |
|    | MAMMA1002597 | F-MAMMA1002597 | 1837 | R-MAMMA1002597 | 7337 |
| 35 | MAMMA1002598 | F-MAMMA1002598 | 1838 | R-MAMMA1002598 | 7338 |
|    | MAMMA1002603 | F-MAMMA1002603 | 1839 | R-MAMMA1002603 | 7339 |
|    | MAMMA1002612 | F-MAMMA1002612 | 1840 | R-MAMMA1002612 | 7340 |
|    | MAMMA1002617 | F-MAMMA1002617 | 1841 | R-MAMMA1002617 | 7341 |
| 40 | MAMMA1002618 | F-MAMMA1002618 | 1842 | R-MAMMA1002618 | 7342 |
|    | MAMMA1002619 | F-MAMMA1002619 | 1843 | R-MAMMA1002619 | 7343 |
|    | MAMMA1002622 | F-MAMMA1002622 | 1844 | R-MAMMA1002622 | 7344 |
|    | MAMMA1002623 | F-MAMMA1002623 | 1845 | R-MAMMA1002623 | 7345 |
|    | MAMMA1002625 | F-MAMMA1002625 | 1846 | R-MAMMA1002625 | 7346 |
| 45 | MAMMA1002629 | F-MAMMA1002629 | 1847 | R-MAMMA1002629 | 7347 |
|    | MAMMA1002636 | F-MAMMA1002636 | 1848 | R-MAMMA1002636 | 7348 |
|    | MAMMA1002637 | F-MAMMA1002637 | 1849 | R-MAMMA1002637 | 7349 |
|    | MAMMA1002646 | F-MAMMA1002646 | 1850 | R-MAMMA1002646 | 7350 |
| 50 | MAMMA1002650 | F-MAMMA1002650 | 1851 | R-MAMMA1002650 | 7351 |
|    | MAMMA1002655 | F-MAMMA1002655 | 1852 | R-MAMMA1002655 | 7352 |
|    | MAMMA1002662 | F-MAMMA1002662 | 1853 | R-MAMMA1002662 | 7353 |
|    | MAMMA1002665 | F-MAMMA1002665 | 1854 | R-MAMMA1002665 | 7354 |
| 55 | MAMMA1002671 | F-MAMMA1002671 | 1855 | R-MAMMA1002671 | 7355 |



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|    | MAMMA1002673 | F-MAMMA1002673 | 1856 | R-MAMMA1002673 | 7356 |
|    | MAMMA1002684 | F-MAMMA1002684 | 1857 | R-MAMMA1002684 | 7357 |
|    | MAMMA1002685 | F-MAMMA1002685 | 1858 | R-MAMMA1002685 | 7358 |
| 5  | MAMMA1002698 | F-MAMMA1002698 | 1859 | R-MAMMA1002698 | 7359 |
|    | MAMMA1002699 | F-MAMMA1002699 | 1860 | R-MAMMA1002699 | 7360 |
|    | MAMMA1002701 | F-MAMMA1002701 | 1861 | R-MAMMA1002701 | 7361 |
|    | MAMMA1002708 | F-MAMMA1002708 | 1862 | R-MAMMA1002708 | 7362 |
| 10 | MAMMA1002711 | F-MAMMA1002711 | 1863 | R-MAMMA1002711 | 7363 |
|    | MAMMA1002721 | F-MAMMA1002721 | 1864 | R-MAMMA1002721 | 7364 |
|    | MAMMA1002727 | F-MAMMA1002727 | 1865 | R-MAMMA1002727 | 7365 |
|    | MAMMA1002728 | F-MAMMA1002728 | 1866 | R-MAMMA1002728 | 7366 |
| 15 | MAMMA1002744 | F-MAMMA1002744 | 1867 | R-MAMMA1002744 | 7367 |
|    | MAMMA1002746 | F-MAMMA1002746 | 1868 | R-MAMMA1002746 | 7368 |
|    | MAMMA1002748 | F-MAMMA1002748 | 1869 | R-MAMMA1002748 | 7369 |
|    | MAMMA1002754 | F-MAMMA1002754 | 1870 | R-MAMMA1002754 | 7370 |
| 20 | MAMMA1002758 | F-MAMMA1002758 | 1871 | R-MAMMA1002758 | 7371 |
|    | MAMMA1002764 | F-MAMMA1002764 | 1872 | R-MAMMA1002764 | 7372 |
|    | MAMMA1002765 | F-MAMMA1002765 | 1873 | R-MAMMA1002765 | 7373 |
|    | MAMMA1002769 | F-MAMMA1002769 | 1874 | R-MAMMA1002769 | 7374 |
|    | MAMMA1002775 | F-MAMMA1002775 | 1875 |                |      |
| 25 | MAMMA1002780 | F-MAMMA1002780 | 1876 | R-MAMMA1002780 | 7375 |
|    | MAMMA1002782 | F-MAMMA1002782 | 1877 | R-MAMMA1002782 | 7376 |
|    | MAMMA1002796 | F-MAMMA1002796 | 1878 | R-MAMMA1002796 | 7377 |
|    | MAMMA1002807 | F-MAMMA1002807 | 1879 | R-MAMMA1002807 | 7378 |
| 30 | MAMMA1002820 | F-MAMMA1002820 | 1880 | R-MAMMA1002820 | 7379 |
|    | MAMMA1002830 | F-MAMMA1002830 | 1881 | R-MAMMA1002830 | 7380 |
|    | MAMMA1002833 | F-MAMMA1002833 | 1882 | R-MAMMA1002833 | 7381 |
|    | MAMMA1002835 | F-MAMMA1002835 | 1883 | R-MAMMA1002835 | 7382 |
| 35 | MAMMA1002838 | F-MAMMA1002838 | 1884 | R-MAMMA1002838 | 7383 |
|    | MAMMA1002842 | F-MAMMA1002842 | 1885 | R-MAMMA1002842 | 7384 |
|    | MAMMA1002843 | F-MAMMA1002843 | 1886 | R-MAMMA1002843 | 7385 |
|    | MAMMA1002844 | F-MAMMA1002844 | 1887 | R-MAMMA1002844 | 7386 |
| 40 | MAMMA1002858 | F-MAMMA1002858 | 1888 | R-MAMMA1002858 | 7387 |
|    | MAMMA1002868 | F-MAMMA1002868 | 1889 | R-MAMMA1002868 | 7388 |
|    | MAMMA1002869 | F-MAMMA1002869 | 1890 |                |      |
|    | MAMMA1002871 | F-MAMMA1002871 | 1891 | R-MAMMA1002871 | 7389 |
|    | MAMMA1002880 | F-MAMMA1002880 | 1892 | R-MAMMA1002880 | 7390 |
| 45 | MAMMA1002881 | F-MAMMA1002881 | 1893 | R-MAMMA1002881 | 7391 |
|    | MAMMA1002886 | F-MAMMA1002886 | 1894 | R-MAMMA1002886 | 7392 |
|    | MAMMA1002887 | F-MAMMA1002887 | 1895 | R-MAMMA1002887 | 7393 |
|    | MAMMA1002890 | F-MAMMA1002890 | 1896 | R-MAMMA1002890 | 7394 |
| 50 | MAMMA1002892 | F-MAMMA1002892 | 1897 | R-MAMMA1002892 | 7395 |
|    | MAMMA1002895 | F-MAMMA1002895 | 1898 | R-MAMMA1002895 | 7396 |
|    | MAMMA1002908 | F-MAMMA1002908 | 1899 | R-MAMMA1002908 | 7397 |
|    | MAMMA1002909 | F-MAMMA1002909 | 1900 | R-MAMMA1002909 | 7398 |
| 55 | MAMMA1002930 | F-MAMMA1002930 | 1901 | R-MAMMA1002930 | 7399 |

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|    | MAMMA1002937 | F-MAMMA1002937 | 1902 |                 |      |
|    | MAMMA1002938 | F-MAMMA1002938 | 1903 | R-MAMMA1002938  | 7400 |
|    | MAMMA1002941 | F-MAMMA1002941 | 1904 | R-MAMMA1002941  | 7401 |
| 5  | MAMMA1002947 | F-MAMMA1002947 | 1905 | R-MAMMA1002947  | 7402 |
|    | MAMMA1002964 | F-MAMMA1002964 | 1906 | R-MAMMA1002964  | 7403 |
|    | MAMMA1002970 | F-MAMMA1002970 | 1907 | R-MAMMA1002970  | 7404 |
|    | MAMMA1002972 | F-MAMMA1002972 | 1908 | R-MAMMA1002972  | 7405 |
| 10 | MAMMA1002973 | F-MAMMA1002973 | 1909 | R-MAMMA1002973  | 7406 |
|    | MAMMA1002982 | F-MAMMA1002982 | 1910 | R-MAMMA1002982  | 7407 |
|    | MAMMA1002987 | F-MAMMA1002987 | 1911 | R-MAMMA1002987  | 7408 |
|    | MAMMA1003003 | F-MAMMA1003003 | 1912 | R-MAMMA1003003  | 7409 |
| 15 | MAMMA1003004 | F-MAMMA1003004 | 1913 | R-MAMMA1003004  | 7410 |
|    | MAMMA1003007 | F-MAMMA1003007 | 1914 | R-MAMMA1003007  | 7411 |
|    | MAMMA1003011 | F-MAMMA1003011 | 1915 | R-MAMMA1003011  | 7412 |
|    | MAMMA1003013 | F-MAMMA1003013 | 1916 |                 |      |
| 20 | MAMMA1003015 | F-MAMMA1003015 | 1917 | R-MAMMA1003015  | 7413 |
|    | MAMMA1003019 | F-MAMMA1003019 | 1918 | R-MAMMA1003019  | 7414 |
|    | MAMMA1003026 | F-MAMMA1003026 | 1919 | R-MAMMA1003026  | 7415 |
|    | MAMMA1003031 | F-MAMMA1003031 | 1920 | R-MAMMA1003031  | 7416 |
| 25 | MAMMA1003035 | F-MAMMA1003035 | 1921 | R-MAMMA1003035  | 7417 |
|    | MAMMA1003039 | F-MAMMA1003039 | 1922 | R-MAMMA1003039  | 7418 |
|    | MAMMA1003040 | F-MAMMA1003040 | 1923 | R-MAMMA1003040  | 7419 |
|    | MAMMA1003044 | F-MAMMA1003044 | 1924 | R-MAMMA1003044  | 7420 |
| 30 | MAMMA1003047 | F-MAMMA1003047 | 1925 | R-MAMMA1003047  | 7421 |
|    | MAMMA1003049 | F-MAMMA1003049 | 1926 | R-MAMMA1003049  | 7422 |
|    | MAMMA1003055 | F-MAMMA1003055 | 1927 | R-MAMMA1003055  | 7423 |
|    | MAMMA1003056 | F-MAMMA1003056 | 1928 | R-MAMMA1003056  | 7424 |
| 35 | MAMMA1003057 | F-MAMMA1003057 | 1929 | R-MAMMA1003057  | 7425 |
|    | MAMMA1003066 | F-MAMMA1003066 | 1930 | R-MAMMA1003066  | 7426 |
|    | MAMMA1003089 | F-MAMMA1003089 | 1931 | R-MAMMA1003089  | 7427 |
|    | MAMMA1003099 | F-MAMMA1003099 | 1932 | R-MAMMA1003099  | 7428 |
|    | MAMMA1003104 | F-MAMMA1003104 | 1933 | R-MAMMA1003104  | 7429 |
| 40 | MAMMA1003113 | F-MAMMA1003113 | 1934 | R-MAMMA1003113  | 7430 |
|    | MAMMA1003127 | F-MAMMA1003127 | 1935 | R-MAMMA1003127  | 7431 |
|    | MAMMA1003135 | F-MAMMA1003135 | 1936 | R-MAMMA1003135  | 7432 |
|    | MAMMA1003140 | F-MAMMA1003140 | 1937 | R-MAMMA1003140  | 7433 |
| 45 | MAMMA1003146 | F-MAMMA1003146 | 1938 | R-MAMMA1003146  | 7434 |
|    | MAMMA1003150 | F-MAMMA1003150 | 1939 | R-nnnnnnnnnnnnn | 7435 |
|    | MAMMA1003166 | F-MAMMA1003166 | 1940 | R-MAMMA1003166  | 7436 |
|    | NT2RM1000001 | F-NT2RM1000001 | 1941 |                 |      |
| 50 | NT2RM1000018 | F-NT2RM1000018 | 1942 |                 |      |
|    | NT2RM1000032 | F-NT2RM1000032 | 1943 |                 |      |
|    | NT2RM1000035 | F-NT2RM1000035 | 1944 |                 |      |
|    | NT2RM1000037 | F-NT2RM1000037 | 1945 |                 |      |
| 55 | NT2RM1000039 | F-NT2RM1000039 | 1946 |                 |      |
|    | NT2RM1000055 | F-NT2RM1000055 | 1947 |                 |      |

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|----|--------------|----------------|------|
|    | NT2RM1000059 | F-NT2RM1000059 | 1948 |
|    | NT2RM1000062 | F-NT2RM1000062 | 1949 |
|    | NT2RM1000080 | F-NT2RM1000080 | 1950 |
| 5  | NT2RM1000086 | F-NT2RM1000086 | 1951 |
|    | NT2RM1000092 | F-NT2RM1000092 | 1952 |
|    | NT2RM1000118 | F-NT2RM1000118 | 1953 |
|    | NT2RM1000119 | F-NT2RM1000119 | 1954 |
| 10 | NT2RM1000127 | F-NT2RM1000127 | 1955 |
|    | NT2RM1000131 | F-NT2RM1000131 | 1956 |
|    | NT2RM1000132 | F-NT2RM1000132 | 1957 |
|    | NT2RM1000153 | F-NT2RM1000153 | 1958 |
| 15 | NT2RM1000186 | F-NT2RM1000186 | 1959 |
|    | NT2RM1000187 | F-NT2RM1000187 | 1960 |
|    | NT2RM1000199 | F-NT2RM1000199 | 1961 |
|    | NT2RM1000242 | F-NT2RM1000242 | 1962 |
| 20 | NT2RM1000244 | F-NT2RM1000244 | 1963 |
|    | NT2RM1000252 | F-NT2RM1000252 | 1964 |
|    | NT2RM1000256 | F-NT2RM1000256 | 1965 |
|    | NT2RM1000257 | F-NT2RM1000257 | 1966 |
|    | NT2RM1000260 | F-NT2RM1000260 | 1967 |
| 25 | NT2RM1000271 | F-NT2RM1000271 | 1968 |
|    | NT2RM1000272 | F-NT2RM1000272 | 1969 |
|    | NT2RM1000280 | F-NT2RM1000280 | 1970 |
|    | NT2RM1000300 | F-NT2RM1000300 | 1971 |
| 30 | NT2RM1000314 | F-NT2RM1000314 | 1972 |
|    | NT2RM1000318 | F-NT2RM1000318 | 1973 |
|    | NT2RM1000341 | F-NT2RM1000341 | 1974 |
|    | NT2RM1000354 | F-NT2RM1000354 | 1975 |
| 35 | NT2RM1000355 | F-NT2RM1000355 | 1976 |
|    | NT2RM1000365 | F-NT2RM1000365 | 1977 |
|    | NT2RM1000377 | F-NT2RM1000377 | 1978 |
|    | NT2RM1000388 | F-NT2RM1000388 | 1979 |
| 40 | NT2RM1000394 | F-NT2RM1000394 | 1980 |
|    | NT2RM1000399 | F-NT2RM1000399 | 1981 |
|    | NT2RM1000421 | F-NT2RM1000421 | 1982 |
|    | NT2RM1000430 | F-NT2RM1000430 | 1983 |
| 45 | NT2RM1000499 | F-NT2RM1000499 | 1984 |
|    | NT2RM1000539 | F-NT2RM1000539 | 1985 |
|    | NT2RM1000553 | F-NT2RM1000553 | 1986 |
|    | NT2RM1000555 | F-NT2RM1000555 | 1987 |
|    | NT2RM1000563 | F-NT2RM1000563 | 1988 |
| 50 | NT2RM1000623 | F-NT2RM1000623 | 1989 |
|    | NT2RM1000648 | F-NT2RM1000648 | 1990 |
|    | NT2RM1000661 | F-NT2RM1000661 | 1991 |
|    | NT2RM1000666 | F-NT2RM1000666 | 1992 |
| 55 | NT2RM1000669 | F-NT2RM1000669 | 1993 |

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|----|--------------|----------------|------|
|    | NT2RM1000672 | F-NT2RM1000672 | 1994 |
|    | NT2RM1000691 | F-NT2RM1000691 | 1995 |
|    | NT2RM1000699 | F-NT2RM1000699 | 1996 |
| 5  | NT2RM1000702 | F-NT2RM1000702 | 1997 |
|    | NT2RM1000725 | F-NT2RM1000725 | 1998 |
|    | NT2RM1000741 | F-NT2RM1000741 | 1999 |
|    | NT2RM1000742 | F-NT2RM1000742 | 2000 |
| 10 | NT2RM1000746 | F-NT2RM1000746 | 2001 |
|    | NT2RM1000770 | F-NT2RM1000770 | 2002 |
|    | NT2RM1000772 | F-NT2RM1000772 | 2003 |
|    | NT2RM1000780 | F-NT2RM1000780 | 2004 |
| 15 | NT2RM1000781 | F-NT2RM1000781 | 2005 |
|    | NT2RM1000800 | F-NT2RM1000800 | 2006 |
|    | NT2RM1000802 | F-NT2RM1000802 | 2007 |
|    | NT2RM1000811 | F-NT2RM1000811 | 2008 |
| 20 | NT2RM1000826 | F-NT2RM1000826 | 2009 |
|    | NT2RM1000829 | F-NT2RM1000829 | 2010 |
|    | NT2RM1000833 | F-NT2RM1000833 | 2011 |
|    | NT2RM1000850 | F-NT2RM1000850 | 2012 |
| 25 | NT2RM1000852 | F-NT2RM1000852 | 2013 |
|    | NT2RM1000857 | F-NT2RM1000857 | 2014 |
|    | NT2RM1000867 | F-NT2RM1000867 | 2015 |
|    | NT2RM1000874 | F-NT2RM1000874 | 2016 |
|    | NT2RM1000882 | F-NT2RM1000882 | 2017 |
| 30 | NT2RM1000883 | F-NT2RM1000883 | 2018 |
|    | NT2RM1000885 | F-NT2RM1000885 | 2019 |
|    | NT2RM1000894 | F-NT2RM1000894 | 2020 |
|    | NT2RM1000898 | F-NT2RM1000898 | 2021 |
| 35 | NT2RM1000905 | F-NT2RM1000905 | 2022 |
|    | NT2RM1000924 | F-NT2RM1000924 | 2023 |
|    | NT2RM1000927 | F-NT2RM1000927 | 2024 |
|    | NT2RM1000962 | F-NT2RM1000962 | 2025 |
| 40 | NT2RM1000978 | F-NT2RM1000978 | 2026 |
|    | NT2RM1001003 | F-NT2RM1001003 | 2027 |
|    | NT2RM1001008 | F-NT2RM1001008 | 2028 |
|    | NT2RM1001043 | F-NT2RM1001043 | 2029 |
| 45 | NT2RM1001044 | F-NT2RM1001044 | 2030 |
|    | NT2RM1001059 | F-NT2RM1001059 | 2031 |
|    | NT2RM1001066 | F-NT2RM1001066 | 2032 |
|    | NT2RM1001072 | F-NT2RM1001072 | 2033 |
|    | NT2RM1001074 | F-NT2RM1001074 | 2034 |
| 50 | NT2RM1001082 | F-NT2RM1001082 | 2035 |
|    | NT2RM1001085 | F-NT2RM1001085 | 2036 |
|    | NT2RM1001092 | F-NT2RM1001092 | 2037 |
|    | NT2RM1001102 | F-NT2RM1001102 | 2038 |
| 55 | NT2RM1001105 | F-NT2RM1001105 | 2039 |

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|----|----------------|-----------------|------|
|    | NT2RM1001112   | F-NT2RM1001112  | 2040 |
|    | NT2RM1001115   | F-NT2RM1001115  | 2041 |
|    | NT2RM1001139   | F-NT2RM1001139  | 2042 |
| 5  | NT2RM2000006   | F-NT2RM2000006  | 2043 |
|    | NT2RM2000013   | F-NT2RM2000013  | 2044 |
|    | NT2RM2000030   | F-NT2RM2000030  | 2045 |
|    | NT2RM2000032   | F-NT2RM2000032  | 2046 |
| 10 | NT2RM2000042   | F-NT2RM2000042  | 2047 |
|    | NT2RM2000092   | F-NT2RM2000092  | 2048 |
|    | NT2RM2000093   | F-NT2RM2000093  | 2049 |
|    | NT2RM2000101   | F-NT2RM2000101  | 2050 |
| 15 | NT2RM2000124   | F-NT2RM2000124  | 2051 |
|    | NT2RM2000191   | F-NT2RM2000191  | 2052 |
|    | NT2RM2000192   | F-NT2RM2000192  | 2053 |
|    | NT2RM2000239   | F-NT2RM2000239  | 2054 |
| 20 | nnnnnnnnnnnnnn | F-nnnnnnnnnnnnn | 2055 |
|    | NT2RM2000250   | F-NT2RM2000250  | 2056 |
|    | NT2RM2000259   | F-NT2RM2000259  | 2057 |
|    | NT2RM2000260   | F-NT2RM2000260  | 2058 |
|    | NT2RM2000287   | F-NT2RM2000287  | 2059 |
| 25 | NT2RM2000322   | F-NT2RM2000322  | 2060 |
|    | NT2RM2000359   | F-NT2RM2000359  | 2061 |
|    | NT2RM2000363   | F-NT2RM2000363  | 2062 |
|    | NT2RM2000368   | F-NT2RM2000368  | 2063 |
| 30 | NT2RM2000371   | F-NT2RM2000371  | 2064 |
|    | NT2RM2000374   | F-NT2RM2000374  | 2065 |
|    | NT2RM2000395   | F-NT2RM2000395  | 2066 |
|    | NT2RM2000402   | F-NT2RM2000402  | 2067 |
| 35 | NT2RM2000407   | F-NT2RM2000407  | 2068 |
|    | NT2RM2000420   | F-NT2RM2000420  | 2069 |
|    | NT2RM2000422   | F-NT2RM2000422  | 2070 |
|    | NT2RM2000452   | F-NT2RM2000452  | 2071 |
| 40 | NT2RM2000469   | F-NT2RM2000469  | 2072 |
|    | NT2RM2000490   | F-NT2RM2000490  | 2073 |
|    | NT2RM2000502   | F-NT2RM2000502  | 2074 |
|    | NT2RM2000504   | F-NT2RM2000504  | 2075 |
|    | NT2RM2000522   | F-NT2RM2000522  | 2076 |
| 45 | NT2RM2000540   | F-NT2RM2000540  | 2077 |
|    | NT2RM2000556   | F-NT2RM2000556  | 2078 |
|    | NT2RM2000566   | F-NT2RM2000566  | 2079 |
|    | NT2RM2000567   | F-NT2RM2000567  | 2080 |
| 50 | NT2RM2000569   | F-NT2RM2000569  | 2081 |
|    | NT2RM2000577   | F-NT2RM2000577  | 2082 |
|    | NT2RM2000581   | F-NT2RM2000581  | 2083 |
|    | NT2RM2000588   | F-NT2RM2000588  | 2084 |
| 55 | NT2RM2000594   | F-NT2RM2000594  | 2085 |

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|----|--------------|----------------|------|
|    | NT2RM2000599 | F-NT2RM2000599 | 2086 |
|    | NT2RM2000609 | F-NT2RM2000609 | 2087 |
|    | NT2RM2000612 | F-NT2RM2000612 | 2088 |
| 5  | NT2RM2000623 | F-NT2RM2000623 | 2089 |
|    | NT2RM2000624 | F-NT2RM2000624 | 2090 |
|    | NT2RM2000635 | F-NT2RM2000635 | 2091 |
|    | NT2RM2000636 | F-NT2RM2000636 | 2092 |
| 10 | NT2RM2000639 | F-NT2RM2000639 | 2093 |
|    | NT2RM2000649 | F-NT2RM2000649 | 2094 |
|    | NT2RM2000669 | F-NT2RM2000669 | 2095 |
|    | NT2RM2000691 | F-NT2RM2000691 | 2096 |
| 15 | NT2RM2000714 | F-NT2RM2000714 | 2097 |
|    | NT2RM2000718 | F-NT2RM2000718 | 2098 |
|    | NT2RM2000735 | F-NT2RM2000735 | 2099 |
|    | NT2RM2000740 | F-NT2RM2000740 | 2100 |
| 20 | NT2RM2000795 | F-NT2RM2000795 | 2101 |
|    | NT2RM2000821 | F-NT2RM2000821 | 2102 |
|    | NT2RM2000837 | F-NT2RM2000837 | 2103 |
|    | NT2RM2000951 | F-NT2RM2000951 | 2104 |
|    | NT2RM2000952 | F-NT2RM2000952 | 2105 |
| 25 | NT2RM2000984 | F-NT2RM2000984 | 2106 |
|    | NT2RM2001004 | F-NT2RM2001004 | 2107 |
|    | NT2RM2001035 | F-NT2RM2001035 | 2108 |
|    | NT2RM2001065 | F-NT2RM2001065 | 2109 |
| 30 | NT2RM2001100 | F-NT2RM2001100 | 2110 |
|    | NT2RM2001105 | F-NT2RM2001105 | 2111 |
|    | NT2RM2001131 | F-NT2RM2001131 | 2112 |
|    | NT2RM2001141 | F-NT2RM2001141 | 2113 |
| 35 | NT2RM2001152 | F-NT2RM2001152 | 2114 |
|    | NT2RM2001177 | F-NT2RM2001177 | 2115 |
|    | NT2RM2001194 | F-NT2RM2001194 | 2116 |
|    | NT2RM2001196 | F-NT2RM2001196 | 2117 |
| 40 | NT2RM2001201 | F-NT2RM2001201 | 2118 |
|    | NT2RM2001221 | F-NT2RM2001221 | 2119 |
|    | NT2RM2001238 | F-NT2RM2001238 | 2120 |
|    | NT2RM2001243 | F-NT2RM2001243 | 2121 |
|    | NT2RM2001247 | F-NT2RM2001247 | 2122 |
| 45 | NT2RM2001256 | F-NT2RM2001256 | 2123 |
|    | NT2RM2001291 | F-NT2RM2001291 | 2124 |
|    | NT2RM2001306 | F-NT2RM2001306 | 2125 |
|    | NT2RM2001312 | F-NT2RM2001312 | 2126 |
| 50 | NT2RM2001319 | F-NT2RM2001319 | 2127 |
|    | NT2RM2001324 | F-NT2RM2001324 | 2128 |
|    | NT2RM2001345 | F-NT2RM2001345 | 2129 |
|    | NT2RM2001360 | F-NT2RM2001360 | 2130 |
| 55 | NT2RM2001370 | F-NT2RM2001370 | 2131 |

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|----|--------------|----------------|------|
|    | NT2RM2001393 | F-NT2RM2001393 | 2132 |
|    | NT2RM2001420 | F-NT2RM2001420 | 2133 |
|    | NT2RM2001424 | F-NT2RM2001424 | 2134 |
| 5  | NT2RM2001499 | F-NT2RM2001499 | 2135 |
|    | NT2RM2001504 | F-NT2RM2001504 | 2136 |
|    | NT2RM2001524 | F-NT2RM2001524 | 2137 |
|    | NT2RM2001544 | F-NT2RM2001544 | 2138 |
| 10 | NT2RM2001547 | F-NT2RM2001547 | 2139 |
|    | NT2RM2001575 | F-NT2RM2001575 | 2140 |
|    | NT2RM2001582 | F-NT2RM2001582 | 2141 |
|    | NT2RM2001588 | F-NT2RM2001588 | 2142 |
| 15 | NT2RM2001592 | F-NT2RM2001592 | 2143 |
|    | NT2RM2001605 | F-NT2RM2001605 | 2144 |
|    | NT2RM2001613 | F-NT2RM2001613 | 2145 |
|    | NT2RM2001632 | F-NT2RM2001632 | 2146 |
| 20 | NT2RM2001635 | F-NT2RM2001635 | 2147 |
|    | NT2RM2001637 | F-NT2RM2001637 | 2148 |
|    | NT2RM2001641 | F-NT2RM2001641 | 2149 |
|    | NT2RM2001648 | F-NT2RM2001648 | 2150 |
|    | NT2RM2001652 | F-NT2RM2001652 | 2151 |
| 25 | NT2RM2001659 | F-NT2RM2001659 | 2152 |
|    | NT2RM2001664 | F-NT2RM2001664 | 2153 |
|    | NT2RM2001668 | F-NT2RM2001668 | 2154 |
|    | NT2RM2001670 | F-NT2RM2001670 | 2155 |
| 30 | NT2RM2001671 | F-NT2RM2001671 | 2156 |
|    | NT2RM2001675 | F-NT2RM2001675 | 2157 |
|    | NT2RM2001681 | F-NT2RM2001681 | 2158 |
|    | NT2RM2001688 | F-NT2RM2001688 | 2159 |
| 35 | NT2RM2001695 | F-NT2RM2001695 | 2160 |
|    | NT2RM2001696 | F-NT2RM2001696 | 2161 |
|    | NT2RM2001698 | F-NT2RM2001698 | 2162 |
|    | NT2RM2001699 | F-NT2RM2001699 | 2163 |
| 40 | NT2RM2001700 | F-NT2RM2001700 | 2164 |
|    | NT2RM2001706 | F-NT2RM2001706 | 2165 |
|    | NT2RM2001716 | F-NT2RM2001716 | 2166 |
|    | NT2RM2001718 | F-NT2RM2001718 | 2167 |
|    | NT2RM2001723 | F-NT2RM2001723 | 2168 |
| 45 | NT2RM2001727 | F-NT2RM2001727 | 2169 |
|    | NT2RM2001730 | F-NT2RM2001730 | 2170 |
|    | NT2RM2001743 | F-NT2RM2001743 | 2171 |
|    | NT2RM2001753 | F-NT2RM2001753 | 2172 |
| 50 | NT2RM2001760 | F-NT2RM2001760 | 2173 |
|    | NT2RM2001768 | F-NT2RM2001768 | 2174 |
|    | NT2RM2001771 | F-NT2RM2001771 | 2175 |
|    | NT2RM2001782 | F-NT2RM2001782 | 2176 |
| 55 | NT2RM2001784 | F-NT2RM2001784 | 2177 |

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|----|--------------|----------------|------|---------------------|
|    | NT2RM2001785 | F-NT2RM2001785 | 2178 |                     |
|    | NT2RM2001797 | F-NT2RM2001797 | 2179 |                     |
|    | NT2RM2001800 | F-NT2RM2001800 | 2180 |                     |
| 5  | NT2RM2001803 | F-NT2RM2001803 | 2181 |                     |
|    | NT2RM2001805 | F-NT2RM2001805 | 2182 |                     |
|    | NT2RM2001813 | F-NT2RM2001813 | 2183 |                     |
|    | NT2RM2001823 | F-NT2RM2001823 | 2184 |                     |
| 10 | NT2RM2001839 | F-NT2RM2001839 | 2185 |                     |
|    | NT2RM2001840 | F-NT2RM2001840 | 2186 |                     |
|    | NT2RM2001855 | F-NT2RM2001855 | 2187 |                     |
|    | NT2RM2001867 | F-NT2RM2001867 | 2188 |                     |
| 15 | NT2RM2001879 | F-NT2RM2001879 | 2189 |                     |
|    | NT2RM2001886 | F-NT2RM2001886 | 2190 |                     |
|    | NT2RM2001896 | F-NT2RM2001896 | 2191 |                     |
|    | NT2RM2001903 | F-NT2RM2001903 | 2192 |                     |
| 20 | NT2RM2001930 | F-NT2RM2001930 | 2193 |                     |
|    | NT2RM2001935 | F-NT2RM2001935 | 2194 |                     |
|    | NT2RM2001936 | F-NT2RM2001936 | 2195 |                     |
|    | NT2RM2001950 | F-NT2RM2001950 | 2196 |                     |
|    | NT2RM2001982 | F-NT2RM2001982 | 2197 |                     |
| 25 | NT2RM2001983 | F-NT2RM2001983 | 2198 |                     |
|    | NT2RM2001989 | F-NT2RM2001989 | 2199 |                     |
|    | NT2RM2001997 | F-NT2RM2001997 | 2200 |                     |
|    | NT2RM2001998 | F-NT2RM2001998 | 2201 |                     |
| 30 | NT2RM2002004 | F-NT2RM2002004 | 2202 |                     |
|    | NT2RM2002014 | F-NT2RM2002014 | 2203 |                     |
|    | NT2RM2002030 | F-NT2RM2002030 | 2204 |                     |
|    | NT2RM2002049 | F-NT2RM2002049 | 2205 |                     |
| 35 | NT2RM2002055 | F-NT2RM2002055 | 2206 |                     |
|    | NT2RM2002088 | F-NT2RM2002088 | 2207 |                     |
|    | NT2RM2002091 | F-NT2RM2002091 | 2208 |                     |
|    | NT2RM2002100 | F-NT2RM2002100 | 2209 |                     |
|    | NT2RM2002109 | F-NT2RM2002109 | 2210 |                     |
| 40 | NT2RM2002128 | F-NT2RM2002128 | 2211 |                     |
|    | NT2RM2002142 | F-NT2RM2002142 | 2212 |                     |
|    | NT2RM2002145 | F-NT2RM2002145 | 2213 |                     |
|    | NT2RM2002178 | F-NT2RM2002178 | 2214 |                     |
| 45 | NT2RM2002580 | F-NT2RM2002580 | 2215 | R-NT2RM2002580 7437 |
|    | NT2RM4000024 | F-NT2RM4000024 | 2216 | R-NT2RM4000024 7438 |
|    | NT2RM4000027 | F-NT2RM4000027 | 2217 | R-NT2RM4000027 7439 |
|    | NT2RM4000030 | F-NT2RM4000030 | 2218 | R-NT2RM4000030 7440 |
| 50 | NT2RM4000046 | F-NT2RM4000046 | 2219 | R-NT2RM4000046 7441 |
|    | NT2RM4000061 | F-NT2RM4000061 | 2220 | R-NT2RM4000061 7442 |
|    | NT2RM4000085 | F-NT2RM4000085 | 2221 | R-NT2RM4000085 7443 |
|    | NT2RM4000086 | F-NT2RM4000086 | 2222 | R-NT2RM4000086 7444 |
| 55 | NT2RM4000104 | F-NT2RM4000104 | 2223 | R-NT2RM4000104 7445 |



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|----|--------------|----------------|------|-----------------|------|
|    | NT2RM4000139 | F-NT2RM4000139 | 2224 | R-NT2RM4000139  | 7446 |
|    | NT2RM4000155 | F-NT2RM4000155 | 2225 | R-NT2RM4000155  | 7447 |
|    | NT2RM4000156 | F-NT2RM4000156 | 2226 | R-NT2RM4000156  | 7448 |
| 5  | NT2RM4000167 | F-NT2RM4000167 | 2227 | R-nnnnnnnnnnnnn | 7449 |
|    | NT2RM4000169 | F-NT2RM4000169 | 2228 | R-NT2RM4000169  | 7450 |
|    | NT2RM4000191 | F-NT2RM4000191 | 2229 | R-NT2RM4000191  | 7451 |
|    | NT2RM4000197 | F-NT2RM4000197 | 2230 | R-NT2RM4000197  | 7452 |
| 10 | NT2RM4000199 | F-NT2RM4000199 | 2231 | R-NT2RM4000199  | 7453 |
|    | NT2RM4000200 | F-NT2RM4000200 | 2232 | R-NT2RM4000200  | 7454 |
|    | NT2RM4000202 | F-NT2RM4000202 | 2233 | R-NT2RM4000202  | 7455 |
|    | NT2RM4000210 | F-NT2RM4000210 | 2234 | R-NT2RM4000210  | 7456 |
| 15 | NT2RM4000215 | F-NT2RM4000215 | 2235 | R-NT2RM4000215  | 7457 |
|    | NT2RM4000229 | F-NT2RM4000229 | 2236 | R-nnnnnnnnnnnnn | 7458 |
|    | NT2RM4000233 | F-NT2RM4000233 | 2237 | R-NT2RM4000233  | 7459 |
|    | NT2RM4000244 | F-NT2RM4000244 | 2238 | R-NT2RM4000244  | 7460 |
| 20 | NT2RM4000251 | F-NT2RM4000251 | 2239 | R-NT2RM4000251  | 7461 |
|    | NT2RM4000265 | F-NT2RM4000265 | 2240 | R-NT2RM4000265  | 7462 |
|    | NT2RM4000290 | F-NT2RM4000290 | 2241 | R-NT2RM4000290  | 7463 |
|    | NT2RM4000324 | F-NT2RM4000324 | 2242 | R-NT2RM4000324  | 7464 |
|    | NT2RM4000327 | F-NT2RM4000327 | 2243 | R-NT2RM4000327  | 7465 |
| 25 | NT2RM4000344 | F-NT2RM4000344 | 2244 | R-NT2RM4000344  | 7466 |
|    | NT2RM4000349 | F-NT2RM4000349 | 2245 | R-NT2RM4000349  | 7467 |
|    | NT2RM4000354 | F-NT2RM4000354 | 2246 | R-NT2RM4000354  | 7468 |
|    | NT2RM4000356 | F-NT2RM4000356 | 2247 | R-NT2RM4000356  | 7469 |
| 30 | NT2RM4000366 | F-NT2RM4000366 | 2248 | R-NT2RM4000366  | 7470 |
|    | NT2RM4000368 | F-NT2RM4000368 | 2249 | R-NT2RM4000368  | 7471 |
|    | NT2RM4000386 | F-NT2RM4000386 | 2250 | R-NT2RM4000386  | 7472 |
|    | NT2RM4000395 | F-NT2RM4000395 | 2251 | R-NT2RM4000395  | 7473 |
| 35 | NT2RM4000414 | F-NT2RM4000414 | 2252 | R-NT2RM4000414  | 7474 |
|    | NT2RM4000421 | F-NT2RM4000421 | 2253 | R-NT2RM4000421  | 7475 |
|    | NT2RM4000425 | F-NT2RM4000425 | 2254 | R-NT2RM4000425  | 7476 |
|    | NT2RM4000433 | F-NT2RM4000433 | 2255 | R-NT2RM4000433  | 7477 |
|    | NT2RM4000457 | F-NT2RM4000457 | 2256 | R-NT2RM4000457  | 7478 |
| 40 | NT2RM4000471 | F-NT2RM4000471 | 2257 | R-NT2RM4000471  | 7479 |
|    | NT2RM4000486 | F-NT2RM4000486 | 2258 | R-NT2RM4000486  | 7480 |
|    | NT2RM4000496 | F-NT2RM4000496 | 2259 | R-NT2RM4000496  | 7481 |
|    | NT2RM4000511 | F-NT2RM4000511 | 2260 | R-NT2RM4000511  | 7482 |
| 45 | NT2RM4000514 | F-NT2RM4000514 | 2261 | R-NT2RM4000514  | 7483 |
|    | NT2RM4000515 | F-NT2RM4000515 | 2262 | R-nnnnnnnnnnnnn | 7484 |
|    | NT2RM4000520 | F-NT2RM4000520 | 2263 | R-NT2RM4000520  | 7485 |
|    | NT2RM4000531 | F-NT2RM4000531 | 2264 | R-NT2RM4000531  | 7486 |
| 50 | NT2RM4000532 | F-NT2RM4000532 | 2265 | R-NT2RM4000532  | 7487 |
|    | NT2RM4000534 | F-NT2RM4000534 | 2266 | R-NT2RM4000534  | 7488 |
|    | NT2RM4000585 | F-NT2RM4000585 | 2267 | R-NT2RM4000585  | 7489 |
|    | NT2RM4000590 | F-NT2RM4000590 | 2268 | R-NT2RM4000590  | 7490 |
| 55 | NT2RM4000595 | F-NT2RM4000595 | 2269 | R-NT2RM4000595  | 7491 |

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|    | NT2RM4000603 | F-NT2RM4000603 | 2270 | R-NT2RM4000603  | 7492 |
|    | NT2RM4000611 | F-NT2RM4000611 | 2271 | R-nnnnnnnnnnnnn | 7493 |
|    | NT2RM4000616 | F-NT2RM4000616 | 2272 | R-NT2RM4000616  | 7494 |
| 5  | NT2RM4000674 | F-NT2RM4000674 | 2273 | R-NT2RM4000674  | 7495 |
|    | NT2RM4000689 | F-NT2RM4000689 | 2274 | R-NT2RM4000689  | 7496 |
|    | NT2RM4000698 | F-NT2RM4000698 | 2275 | R-NT2RM4000698  | 7497 |
|    | NT2RM4000700 | F-NT2RM4000700 | 2276 | R-nnnnnnnnnnnnn | 7498 |
| 10 | NT2RM4000712 | F-NT2RM4000712 | 2277 | R-NT2RM4000712  | 7499 |
|    | NT2RM4000717 | F-NT2RM4000717 | 2278 | R-NT2RM4000717  | 7500 |
|    | NT2RM4000733 | F-NT2RM4000733 | 2279 | R-NT2RM4000733  | 7501 |
|    | NT2RM4000734 | F-NT2RM4000734 | 2280 | R-NT2RM4000734  | 7502 |
|    | NT2RM4000741 | F-NT2RM4000741 | 2281 | R-NT2RM4000741  | 7503 |
| 15 | NT2RM4000751 | F-NT2RM4000751 | 2282 | R-NT2RM4000751  | 7504 |
|    | NT2RM4000764 | F-NT2RM4000764 | 2283 | R-NT2RM4000764  | 7505 |
|    | NT2RM4000778 | F-NT2RM4000778 | 2284 | R-NT2RM4000778  | 7506 |
|    | NT2RM4000779 | F-NT2RM4000779 | 2285 | R-NT2RM4000779  | 7507 |
| 20 | NT2RM4000787 | F-NT2RM4000787 | 2286 | R-NT2RM4000787  | 7508 |
|    | NT2RM4000790 | F-NT2RM4000790 | 2287 | R-NT2RM4000790  | 7509 |
|    | NT2RM4000795 | F-NT2RM4000795 | 2288 | R-NT2RM4000795  | 7510 |
|    | NT2RM4000796 | F-NT2RM4000796 | 2289 | R-NT2RM4000796  | 7511 |
| 25 | NT2RM4000798 | F-NT2RM4000798 | 2290 | R-NT2RM4000798  | 7512 |
|    | NT2RM4000813 | F-NT2RM4000813 | 2291 | R-NT2RM4000813  | 7513 |
|    | NT2RM4000820 | F-NT2RM4000820 | 2292 | R-NT2RM4000820  | 7514 |
|    | NT2RM4000833 | F-NT2RM4000833 | 2293 | R-NT2RM4000833  | 7515 |
| 30 | NT2RM4000848 | F-NT2RM4000848 | 2294 | R-NT2RM4000848  | 7516 |
|    | NT2RM4000852 | F-NT2RM4000852 | 2295 | R-NT2RM4000852  | 7517 |
|    | NT2RM4000855 | F-NT2RM4000855 | 2296 | R-NT2RM4000855  | 7518 |
|    | NT2RM4000887 | F-NT2RM4000887 | 2297 | R-nnnnnnnnnnnnn | 7519 |
|    | NT2RM4000895 | F-NT2RM4000895 | 2298 | R-NT2RM4000895  | 7520 |
| 35 | NT2RM4000950 | F-NT2RM4000950 | 2299 | R-NT2RM4000950  | 7521 |
|    | NT2RM4000971 | F-NT2RM4000971 | 2300 | R-NT2RM4000971  | 7522 |
|    | NT2RM4000979 | F-NT2RM4000979 | 2301 | R-NT2RM4000979  | 7523 |
|    | NT2RM4000996 | F-NT2RM4000996 | 2302 | R-NT2RM4000996  | 7524 |
| 40 | NT2RM4001002 | F-NT2RM4001002 | 2303 | R-NT2RM4001002  | 7525 |
|    | NT2RM4001016 | F-NT2RM4001016 | 2304 | R-NT2RM4001016  | 7526 |
|    | NT2RM4001032 | F-NT2RM4001032 | 2305 | R-NT2RM4001032  | 7527 |
|    | NT2RM4001047 | F-NT2RM4001047 | 2306 | R-NT2RM4001047  | 7528 |
| 45 | NT2RM4001054 | F-NT2RM4001054 | 2307 | R-NT2RM4001054  | 7529 |
|    | NT2RM4001084 | F-NT2RM4001084 | 2308 | R-nnnnnnnnnnnnn | 7530 |
|    | NT2RM4001092 | F-NT2RM4001092 | 2309 | R-NT2RM4001092  | 7531 |
|    | NT2RM4001116 | F-NT2RM4001116 | 2310 | R-NT2RM4001116  | 7532 |
| 50 | NT2RM4001140 | F-NT2RM4001140 | 2311 | R-NT2RM4001140  | 7533 |
|    | NT2RM4001151 | F-NT2RM4001151 | 2312 | R-NT2RM4001151  | 7534 |
|    | NT2RM4001155 | F-NT2RM4001155 | 2313 | R-NT2RM4001155  | 7535 |
|    | NT2RM4001160 | F-NT2RM4001160 | 2314 | R-NT2RM4001160  | 7536 |
| 55 | NT2RM4001187 | F-NT2RM4001187 | 2315 | R-NT2RM4001187  | 7537 |

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|    | NT2RM4001191 | F-NT2RM4001191 | 2316 | R-NT2RM4001191 | 7538 |
|    | NT2RM4001200 | F-NT2RM4001200 | 2317 | R-NT2RM4001200 | 7539 |
|    | NT2RM4001203 | F-NT2RM4001203 | 2318 | R-NT2RM4001203 | 7540 |
| 5  | NT2RM4001204 | F-NT2RM4001204 | 2319 | R-NT2RM4001204 | 7541 |
|    | NT2RM4001217 | F-NT2RM4001217 | 2320 | R-NT2RM4001217 | 7542 |
|    | NT2RM4001256 | F-NT2RM4001256 | 2321 | R-NT2RM4001256 | 7543 |
|    | NT2RM4001258 | F-NT2RM4001258 | 2322 | R-NT2RM4001258 | 7544 |
| 10 | NT2RM4001309 | F-NT2RM4001309 | 2323 | R-NT2RM4001309 | 7545 |
|    | NT2RM4001313 | F-NT2RM4001313 | 2324 | R-NT2RM4001313 | 7546 |
|    | NT2RM4001316 | F-NT2RM4001316 | 2325 | R-NT2RM4001316 | 7547 |
|    | NT2RM4001320 | F-NT2RM4001320 | 2326 | R-NT2RM4001320 | 7548 |
| 15 | NT2RM4001340 | F-NT2RM4001340 | 2327 | R-NT2RM4001340 | 7549 |
|    | NT2RM4001344 | F-NT2RM4001344 | 2328 | R-NT2RM4001344 | 7550 |
|    | NT2RM4001347 | F-NT2RM4001347 | 2329 | R-NT2RM4001347 | 7551 |
|    | NT2RM4001371 | F-NT2RM4001371 | 2330 | R-NT2RM4001371 | 7552 |
| 20 | NT2RM4001382 | F-NT2RM4001382 | 2331 | R-NT2RM4001382 | 7553 |
|    | NT2RM4001384 | F-NT2RM4001384 | 2332 | R-NT2RM4001384 | 7554 |
|    | NT2RM4001410 | F-NT2RM4001410 | 2333 | R-NT2RM4001410 | 7555 |
|    | NT2RM4001411 | F-NT2RM4001411 | 2334 | R-NT2RM4001411 | 7556 |
|    | NT2RM4001412 | F-NT2RM4001412 | 2335 | R-NT2RM4001412 | 7557 |
| 25 | NT2RM4001414 | F-NT2RM4001414 | 2336 | R-NT2RM4001414 | 7558 |
|    | NT2RM4001437 | F-NT2RM4001437 | 2337 | R-NT2RM4001437 | 7559 |
|    | NT2RM4001444 | F-NT2RM4001444 | 2338 | R-NT2RM4001444 | 7560 |
|    | NT2RM4001454 | F-NT2RM4001454 | 2339 | R-NT2RM4001454 | 7561 |
| 30 | NT2RM4001455 | F-NT2RM4001455 | 2340 | R-NT2RM4001455 | 7562 |
|    | NT2RM4001483 | F-NT2RM4001483 | 2341 | R-NT2RM4001483 | 7563 |
|    | NT2RM4001489 | F-NT2RM4001489 | 2342 | R-NT2RM4001489 | 7564 |
|    | NT2RM4001519 | F-NT2RM4001519 | 2343 | R-NT2RM4001519 | 7565 |
|    | NT2RM4001522 | F-NT2RM4001522 | 2344 | R-NT2RM4001522 | 7566 |
| 35 | NT2RM4001557 | F-NT2RM4001557 | 2345 | R-NT2RM4001557 | 7567 |
|    | NT2RM4001565 | F-NT2RM4001565 | 2346 | R-NT2RM4001565 | 7568 |
|    | NT2RM4001566 | F-NT2RM4001566 | 2347 | R-NT2RM4001566 | 7569 |
|    | NT2RM4001569 | F-NT2RM4001569 | 2348 | R-NT2RM4001569 | 7570 |
| 40 | NT2RM4001582 | F-NT2RM4001582 | 2349 | R-NT2RM4001582 | 7571 |
|    | NT2RM4001592 | F-NT2RM4001592 | 2350 | R-NNNNNNNNNNNN | 7572 |
|    | NT2RM4001594 | F-NT2RM4001594 | 2351 | R-NT2RM4001594 | 7573 |
|    | NT2RM4001597 | F-NT2RM4001597 | 2352 | R-NT2RM4001597 | 7574 |
| 45 | NT2RM4001605 | F-NT2RM4001605 | 2353 | R-NT2RM4001605 | 7575 |
|    | NT2RM4001611 | F-NT2RM4001611 | 2354 | R-NT2RM4001611 | 7576 |
|    | NT2RM4001629 | F-NT2RM4001629 | 2355 | R-NT2RM4001629 | 7577 |
|    | NT2RM4001650 | F-NT2RM4001650 | 2356 | R-NT2RM4001650 | 7578 |
|    | NT2RM4001662 | F-NT2RM4001662 | 2357 | R-NT2RM4001662 | 7579 |
| 50 | NT2RM4001666 | F-NT2RM4001666 | 2358 | R-NT2RM4001666 | 7580 |
|    | NT2RM4001682 | F-NT2RM4001682 | 2359 | R-NT2RM4001682 | 7581 |
|    | NT2RM4001710 | F-NT2RM4001710 | 2360 | R-NT2RM4001710 | 7582 |
|    | NT2RM4001714 | F-NT2RM4001714 | 2361 | R-NT2RM4001714 | 7583 |

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|    | NT2RM4001715 | F-NT2RM4001715 | 2362 | R-nnnnnnnnnnnnn | 7584 |
|    | NT2RM4001731 | F-NT2RM4001731 | 2363 | R-NT2RM4001731  | 7585 |
|    | NT2RM4001741 | F-NT2RM4001741 | 2364 | R-NT2RM4001741  | 7586 |
| 5  | NT2RM4001746 | F-NT2RM4001746 | 2365 | R-NT2RM4001746  | 7587 |
|    | NT2RM4001754 | F-NT2RM4001754 | 2366 | R-NT2RM4001754  | 7588 |
|    | NT2RM4001758 | F-NT2RM4001758 | 2367 | R-NT2RM4001758  | 7589 |
|    | NT2RM4001776 | F-NT2RM4001776 | 2368 | R-NT2RM4001776  | 7590 |
| 10 | NT2RM4001783 | F-NT2RM4001783 | 2369 | R-NT2RM4001783  | 7591 |
|    | NT2RM4001810 | F-NT2RM4001810 | 2370 | R-NT2RM4001810  | 7592 |
|    | NT2RM4001813 | F-NT2RM4001813 | 2371 | R-NT2RM4001813  | 7593 |
|    | NT2RM4001819 | F-NT2RM4001819 | 2372 |                 |      |
| 15 | NT2RM4001823 | F-NT2RM4001823 | 2373 | R-NT2RM4001823  | 7594 |
|    | NT2RM4001828 | F-NT2RM4001828 | 2374 | R-NT2RM4001828  | 7595 |
|    | NT2RM4001836 | F-NT2RM4001836 | 2375 | R-NT2RM4001836  | 7596 |
|    | NT2RM4001841 | F-NT2RM4001841 | 2376 | R-NT2RM4001841  | 7597 |
| 20 | NT2RM4001842 | F-NT2RM4001842 | 2377 | R-NT2RM4001842  | 7598 |
|    | NT2RM4001856 | F-NT2RM4001856 | 2378 | R-NT2RM4001856  | 7599 |
|    | NT2RM4001858 | F-NT2RM4001858 | 2379 | R-nnnnnnnnnnnnn | 7600 |
|    | NT2RM4001865 | F-NT2RM4001865 | 2380 | R-NT2RM4001865  | 7601 |
|    | NT2RM4001876 | F-NT2RM4001876 | 2381 | R-NT2RM4001876  | 7602 |
| 25 | NT2RM4001880 | F-NT2RM4001880 | 2382 | R-NT2RM4001880  | 7603 |
|    | NT2RM4001905 | F-NT2RM4001905 | 2383 | R-NT2RM4001905  | 7604 |
|    | NT2RM4001922 | F-NT2RM4001922 | 2384 | R-NT2RM4001922  | 7605 |
|    | NT2RM4001930 | F-NT2RM4001930 | 2385 | R-NT2RM4001930  | 7606 |
| 30 | NT2RM4001938 | F-NT2RM4001938 | 2386 | R-NT2RM4001938  | 7607 |
|    | NT2RM4001940 | F-NT2RM4001940 | 2387 | R-NT2RM4001940  | 7608 |
|    | NT2RM4001953 | F-NT2RM4001953 | 2388 | R-NT2RM4001953  | 7609 |
|    | NT2RM4001965 | F-NT2RM4001965 | 2389 | R-NT2RM4001965  | 7610 |
| 35 | NT2RM4001969 | F-NT2RM4001969 | 2390 | R-nnnnnnnnnnnnn | 7611 |
|    | NT2RM4001979 | F-NT2RM4001979 | 2391 | R-NT2RM4001979  | 7612 |
|    | NT2RM4001984 | F-NT2RM4001984 | 2392 | R-NT2RM4001984  | 7613 |
|    | NT2RM4001987 | F-NT2RM4001987 | 2393 | R-NT2RM4001987  | 7614 |
|    | NT2RM4002013 | F-NT2RM4002013 | 2394 | R-NT2RM4002013  | 7615 |
| 40 | NT2RM4002018 | F-NT2RM4002018 | 2395 | R-NT2RM4002018  | 7616 |
|    | NT2RM4002034 | F-NT2RM4002034 | 2396 | R-NT2RM4002034  | 7617 |
|    | NT2RM4002044 | F-NT2RM4002044 | 2397 | R-NT2RM4002044  | 7618 |
|    | NT2RM4002054 | F-NT2RM4002054 | 2398 | R-NT2RM4002054  | 7619 |
| 45 | NT2RM4002055 | F-NT2RM4002055 | 2399 |                 |      |
|    | NT2RM4002062 | F-NT2RM4002062 | 2400 | R-NT2RM4002062  | 7620 |
|    | NT2RM4002063 | F-NT2RM4002063 | 2401 | R-NT2RM4002063  | 7621 |
|    | NT2RM4002066 | F-NT2RM4002066 | 2402 | R-nnnnnnnnnnnnn | 7622 |
|    | NT2RM4002067 | F-NT2RM4002067 | 2403 | R-NT2RM4002067  | 7623 |
| 50 | NT2RM4002073 | F-NT2RM4002073 | 2404 | R-NT2RM4002073  | 7624 |
|    | NT2RM4002075 | F-NT2RM4002075 | 2405 | R-NT2RM4002075  | 7625 |
|    | NT2RM4002093 | F-NT2RM4002093 | 2406 | R-NT2RM4002093  | 7626 |
| 55 | NT2RM4002109 | F-NT2RM4002109 | 2407 | R-nnnnnnnnnnnnn | 7627 |

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|    | NT2RM4002128 | F-NT2RM4002128 | 2408 | R-NT2RM4002128  | 7628 |
|    | NT2RM4002140 | F-NT2RM4002140 | 2409 | R-NT2RM4002140  | 7629 |
|    | NT2RM4002145 | F-NT2RM4002145 | 2410 | R-NT2RM4002145  | 7630 |
| 5  | NT2RM4002146 | F-NT2RM4002146 | 2411 | R-NT2RM4002146  | 7631 |
|    | NT2RM4002161 | F-NT2RM4002161 | 2412 | R-NT2RM4002161  | 7632 |
|    | NT2RM4002174 | F-NT2RM4002174 | 2413 | R-NT2RM4002174  | 7633 |
|    | NT2RM4002189 | F-NT2RM4002189 | 2414 | R-NT2RM4002189  | 7634 |
| 10 | NT2RM4002194 | F-NT2RM4002194 | 2415 | R-NT2RM4002194  | 7635 |
|    | NT2RM4002205 | F-NT2RM4002205 | 2416 | R-NT2RM4002205  | 7636 |
|    | NT2RM4002213 | F-NT2RM4002213 | 2417 | R-NT2RM4002213  | 7637 |
|    | NT2RM4002226 | F-NT2RM4002226 | 2418 | R-NT2RM4002226  | 7638 |
| 15 | NT2RM4002251 | F-NT2RM4002251 | 2419 | R-NT2RM4002251  | 7639 |
|    | NT2RM4002256 | F-NT2RM4002256 | 2420 | R-NT2RM4002256  | 7640 |
|    | NT2RM4002266 | F-NT2RM4002266 | 2421 | R-NT2RM4002266  | 7641 |
|    | NT2RM4002278 | F-NT2RM4002278 | 2422 | R-NT2RM4002278  | 7642 |
| 20 | NT2RM4002281 | F-NT2RM4002281 | 2423 | R-NT2RM4002281  | 7643 |
|    | NT2RM4002287 | F-NT2RM4002287 | 2424 | R-NT2RM4002287  | 7644 |
|    | NT2RM4002294 | F-NT2RM4002294 | 2425 | R-NT2RM4002294  | 7645 |
|    | NT2RM4002301 | F-NT2RM4002301 | 2426 | R-NT2RM4002301  | 7646 |
|    | NT2RM4002323 | F-NT2RM4002323 | 2427 | R-NT2RM4002323  | 7647 |
| 25 | NT2RM4002339 | F-NT2RM4002339 | 2428 | R-nnnnnnnnnnnnn | 7648 |
|    | NT2RM4002344 | F-NT2RM4002344 | 2429 | R-NT2RM4002344  | 7649 |
|    | NT2RM4002373 | F-NT2RM4002373 | 2430 | R-NT2RM4002373  | 7650 |
|    | NT2RM4002374 | F-NT2RM4002374 | 2431 | R-NT2RM4002374  | 7651 |
| 30 | NT2RM4002383 | F-NT2RM4002383 | 2432 | R-NT2RM4002383  | 7652 |
|    | NT2RM4002390 | F-NT2RM4002390 | 2433 | R-NT2RM4002390  | 7653 |
|    | NT2RM4002398 | F-NT2RM4002398 | 2434 |                 |      |
|    | NT2RM4002409 | F-NT2RM4002409 | 2435 | R-NT2RM4002409  | 7654 |
| 35 | NT2RM4002438 | F-NT2RM4002438 | 2436 | R-NT2RM4002438  | 7655 |
|    | NT2RM4002446 | F-NT2RM4002446 | 2437 | R-NT2RM4002446  | 7656 |
|    | NT2RM4002452 | F-NT2RM4002452 | 2438 | R-NT2RM4002452  | 7657 |
|    | NT2RM4002457 | F-NT2RM4002457 | 2439 | R-NT2RM4002457  | 7658 |
|    | NT2RM4002460 | F-NT2RM4002460 | 2440 | R-NT2RM4002460  | 7659 |
| 40 | NT2RM4002479 | F-NT2RM4002479 | 2441 | R-NT2RM4002479  | 7660 |
|    | NT2RM4002482 | F-NT2RM4002482 | 2442 | R-NT2RM4002482  | 7661 |
|    | NT2RM4002493 | F-NT2RM4002493 | 2443 | R-NT2RM4002493  | 7662 |
|    | NT2RM4002499 | F-NT2RM4002499 | 2444 | R-NT2RM4002499  | 7663 |
| 45 | NT2RM4002504 | F-NT2RM4002504 | 2445 | R-NT2RM4002504  | 7664 |
|    | NT2RM4002527 | F-NT2RM4002527 | 2446 | R-nnnnnnnnnnnnn | 7665 |
|    | NT2RM4002532 | F-NT2RM4002532 | 2447 | R-NT2RM4002532  | 7666 |
|    | NT2RM4002534 | F-NT2RM4002534 | 2448 | R-NT2RM4002534  | 7667 |
|    | NT2RM4002558 | F-NT2RM4002558 | 2449 |                 |      |
| 50 | NT2RM4002565 | F-NT2RM4002565 | 2450 |                 |      |
|    | NT2RM4002567 | F-NT2RM4002567 | 2451 | R-NT2RM4002567  | 7668 |
|    | NT2RM4002571 | F-NT2RM4002571 | 2452 | R-NT2RM4002571  | 7669 |
| 55 | NT2RM4002593 | F-NT2RM4002593 | 2453 | R-NT2RM4002593  | 7670 |

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|    | NT2RM4002594 | F-NT2RM4002594 | 2454 |                     |
|    | NT2RM4002623 | F-NT2RM4002623 | 2455 | R-NT2RM4002623 7671 |
|    | NT2RP1000018 | F-NT2RP1000018 | 2456 |                     |
| 5  | NT2RP1000035 | F-NT2RP1000035 | 2457 |                     |
|    | NT2RP1000040 | F-NT2RP1000040 | 2458 |                     |
|    | NT2RP1000063 | F-NT2RP1000063 | 2459 |                     |
|    | NT2RP1000086 | F-NT2RP1000086 | 2460 |                     |
| 10 | NT2RP1000101 | F-NT2RP1000101 | 2461 |                     |
|    | NT2RP1000111 | F-NT2RP1000111 | 2462 |                     |
|    | NT2RP1000112 | F-NT2RP1000112 | 2463 |                     |
|    | NT2RP1000124 | F-NT2RP1000124 | 2464 |                     |
| 15 | NT2RP1000130 | F-NT2RP1000130 | 2465 |                     |
|    | NT2RP1000163 | F-NT2RP1000163 | 2466 |                     |
|    | NT2RP1000170 | F-NT2RP1000170 | 2467 |                     |
|    | NT2RP1000174 | F-NT2RP1000174 | 2468 |                     |
| 20 | NT2RP1000191 | F-NT2RP1000191 | 2469 |                     |
|    | NT2RP1000202 | F-NT2RP1000202 | 2470 |                     |
|    | NT2RP1000243 | F-NT2RP1000243 | 2471 |                     |
|    | NT2RP1000259 | F-NT2RP1000259 | 2472 |                     |
|    | NT2RP1000272 | F-NT2RP1000272 | 2473 |                     |
| 25 | NT2RP1000324 | F-NT2RP1000324 | 2474 |                     |
|    | NT2RP1000326 | F-NT2RP1000326 | 2475 |                     |
|    | NT2RP1000333 | F-NT2RP1000333 | 2476 |                     |
|    | NT2RP1000348 | F-NT2RP1000348 | 2477 |                     |
| 30 | NT2RP1000357 | F-NT2RP1000357 | 2478 |                     |
|    | NT2RP1000358 | F-NT2RP1000358 | 2479 |                     |
|    | NT2RP1000363 | F-NT2RP1000363 | 2480 |                     |
|    | NT2RP1000376 | F-NT2RP1000376 | 2481 |                     |
| 35 | NT2RP1000409 | F-NT2RP1000409 | 2482 |                     |
|    | NT2RP1000413 | F-NT2RP1000413 | 2483 |                     |
|    | NT2RP1000416 | F-NT2RP1000416 | 2484 |                     |
|    | NT2RP1000418 | F-NT2RP1000418 | 2485 |                     |
| 40 | NT2RP1000439 | F-NT2RP1000439 | 2486 |                     |
|    | NT2RP1000443 | F-NT2RP1000443 | 2487 |                     |
|    | NT2RP1000460 | F-NT2RP1000460 | 2488 |                     |
|    | NT2RP1000470 | F-NT2RP1000470 | 2489 |                     |
| 45 | NT2RP1000478 | F-NT2RP1000478 | 2490 |                     |
|    | NT2RP1000481 | F-NT2RP1000481 | 2491 |                     |
|    | NT2RP1000493 | F-NT2RP1000493 | 2492 |                     |
|    | NT2RP1000513 | F-NT2RP1000513 | 2493 |                     |
| 50 | NT2RP1000522 | F-NT2RP1000522 | 2494 |                     |
|    | NT2RP1000547 | F-NT2RP1000547 | 2495 |                     |
|    | NT2RP1000574 | F-NT2RP1000574 | 2496 |                     |
|    | NT2RP1000577 | F-NT2RP1000577 | 2497 |                     |
|    | NT2RP1000581 | F-NT2RP1000581 | 2498 |                     |
| 55 | NT2RP1000609 | F-NT2RP1000609 | 2499 |                     |

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|    | NT2RP1000629 | F-NT2RP1000629 | 2500 |
|    | NT2RP1000630 | F-NT2RP1000630 | 2501 |
|    | NT2RP1000677 | F-NT2RP1000677 | 2502 |
| 5  | NT2RP1000688 | F-NT2RP1000688 | 2503 |
|    | NT2RP1000695 | F-NT2RP1000695 | 2504 |
|    | NT2RP1000701 | F-NT2RP1000701 | 2505 |
|    | NT2RP1000721 | F-NT2RP1000721 | 2506 |
| 10 | NT2RP1000730 | F-NT2RP1000730 | 2507 |
|    | NT2RP1000733 | F-NT2RP1000733 | 2508 |
|    | NT2RP1000738 | F-NT2RP1000738 | 2509 |
|    | NT2RP1000746 | F-NT2RP1000746 | 2510 |
| 15 | NT2RP1000767 | F-NT2RP1000767 | 2511 |
|    | NT2RP1000782 | F-NT2RP1000782 | 2512 |
|    | NT2RP1000796 | F-NT2RP1000796 | 2513 |
|    | NT2RP1000825 | F-NT2RP1000825 | 2514 |
| 20 | NT2RP1000833 | F-NT2RP1000833 | 2515 |
|    | NT2RP1000834 | F-NT2RP1000834 | 2516 |
|    | NT2RP1000836 | F-NT2RP1000836 | 2517 |
|    | NT2RP1000846 | F-NT2RP1000846 | 2518 |
|    | NT2RP1000851 | F-NT2RP1000851 | 2519 |
| 25 | NT2RP1000856 | F-NT2RP1000856 | 2520 |
|    | NT2RP1000860 | F-NT2RP1000860 | 2521 |
|    | NT2RP1000902 | F-NT2RP1000902 | 2522 |
|    | NT2RP1000915 | F-NT2RP1000915 | 2523 |
| 30 | NT2RP1000916 | F-NT2RP1000916 | 2524 |
|    | NT2RP1000943 | F-NT2RP1000943 | 2525 |
|    | NT2RP1000944 | F-NT2RP1000944 | 2526 |
|    | NT2RP1000947 | F-NT2RP1000947 | 2527 |
| 35 | NT2RP1000954 | F-NT2RP1000954 | 2528 |
|    | NT2RP1000958 | F-NT2RP1000958 | 2529 |
|    | NT2RP1000959 | F-NT2RP1000959 | 2530 |
|    | NT2RP1000966 | F-NT2RP1000966 | 2531 |
| 40 | NT2RP1000980 | F-NT2RP1000980 | 2532 |
|    | NT2RP1000988 | F-NT2RP1000988 | 2533 |
|    | NT2RP1001011 | F-NT2RP1001011 | 2534 |
|    | NT2RP1001013 | F-NT2RP1001013 | 2535 |
| 45 | NT2RP1001014 | F-NT2RP1001014 | 2536 |
|    | NT2RP1001033 | F-NT2RP1001033 | 2537 |
|    | NT2RP1001073 | F-NT2RP1001073 | 2538 |
|    | NT2RP1001079 | F-NT2RP1001079 | 2539 |
|    | NT2RP1001080 | F-NT2RP1001080 | 2540 |
| 50 | NT2RP1001113 | F-NT2RP1001113 | 2541 |
|    | NT2RP1001173 | F-NT2RP1001173 | 2542 |
|    | NT2RP1001177 | F-NT2RP1001177 | 2543 |
|    | NT2RP1001185 | F-NT2RP1001185 | 2544 |
| 55 | NT2RP1001199 | F-NT2RP1001199 | 2545 |

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|    | NT2RP1001247 | F-NT2RP1001247 | 2546 |                |      |
|    | NT2RP1001248 | F-NT2RP1001248 | 2547 |                |      |
|    | NT2RP1001253 | F-NT2RP1001253 | 2548 |                |      |
| 5  | NT2RP1001286 | F-NT2RP1001286 | 2549 |                |      |
|    | NT2RP1001294 | F-NT2RP1001294 | 2550 |                |      |
|    | NT2RP1001302 | F-NT2RP1001302 | 2551 |                |      |
|    | NT2RP1001310 | F-NT2RP1001310 | 2552 |                |      |
| 10 | NT2RP1001311 | F-NT2RP1001311 | 2553 |                |      |
|    | NT2RP1001313 | F-NT2RP1001313 | 2554 |                |      |
|    | NT2RP1001361 | F-NT2RP1001361 | 2555 |                |      |
|    | NT2RP1001385 | F-NT2RP1001385 | 2556 |                |      |
| 15 | NT2RP1001395 | F-NT2RP1001395 | 2557 |                |      |
|    | NT2RP1001410 | F-NT2RP1001410 | 2558 |                |      |
|    | NT2RP1001424 | F-NT2RP1001424 | 2559 |                |      |
|    | NT2RP1001432 | F-NT2RP1001432 | 2560 |                |      |
| 20 | NT2RP1001449 | F-NT2RP1001449 | 2561 |                |      |
|    | NT2RP1001457 | F-NT2RP1001457 | 2562 |                |      |
|    | NT2RP1001466 | F-NT2RP1001466 | 2563 |                |      |
|    | NT2RP1001475 | F-NT2RP1001475 | 2564 |                |      |
| 25 | NT2RP1001482 | F-NT2RP1001482 | 2565 |                |      |
|    | NT2RP1001494 | F-NT2RP1001494 | 2566 |                |      |
|    | NT2RP1001543 | F-NT2RP1001543 | 2567 |                |      |
|    | NT2RP1001546 | F-NT2RP1001546 | 2568 |                |      |
|    | NT2RP1001569 | F-NT2RP1001569 | 2569 |                |      |
| 30 | NT2RP1001616 | F-NT2RP1001616 | 2570 |                |      |
|    | NT2RP1001665 | F-NT2RP1001665 | 2571 |                |      |
|    | NT2RP2000001 | F-NT2RP2000001 | 2572 | R-NT2RP2000001 | 7672 |
|    | NT2RP2000006 | F-NT2RP2000006 | 2573 | R-NT2RP2000006 | 7673 |
| 35 | NT2RP2000007 | F-NT2RP2000007 | 2574 |                |      |
|    | NT2RP2000008 | F-NT2RP2000008 | 2575 | R-NT2RP2000008 | 7674 |
|    | NT2RP2000027 | F-NT2RP2000027 | 2576 | R-NT2RP2000027 | 7675 |
|    | NT2RP2000032 | F-NT2RP2000032 | 2577 |                |      |
| 40 | NT2RP2000040 | F-NT2RP2000040 | 2578 | R-NT2RP2000040 | 7676 |
|    | NT2RP2000045 | F-NT2RP2000045 | 2579 | R-NT2RP2000045 | 7677 |
|    | NT2RP2000054 | F-NT2RP2000054 | 2580 | R-NT2RP2000054 | 7678 |
|    | NT2RP2000056 | F-NT2RP2000056 | 2581 | R-NT2RP2000056 | 7679 |
| 45 | NT2RP2000067 | F-NT2RP2000067 | 2582 | R-NT2RP2000067 | 7680 |
|    | NT2RP2000070 | F-NT2RP2000070 | 2583 | R-NT2RP2000070 | 7681 |
|    | NT2RP2000076 | F-NT2RP2000076 | 2584 | R-NT2RP2000076 | 7682 |
|    | NT2RP2000077 | F-NT2RP2000077 | 2585 | R-NT2RP2000077 | 7683 |
|    | NT2RP2000079 | F-NT2RP2000079 | 2586 | R-NT2RP2000079 | 7684 |
| 50 | NT2RP2000088 | F-NT2RP2000088 | 2587 | R-NT2RP2000088 | 7685 |
|    | NT2RP2000091 | F-NT2RP2000091 | 2588 | R-NT2RP2000091 | 7686 |
|    | NT2RP2000097 | F-NT2RP2000097 | 2589 | R-NT2RP2000097 | 7687 |
|    | NT2RP2000098 | F-NT2RP2000098 | 2590 | R-NT2RP2000098 | 7688 |
| 55 | NT2RP2000108 | F-NT2RP2000108 | 2591 | R-NT2RP2000108 | 7689 |



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|    | NT2RP2000114 | F-NT2RP2000114 | 2592 | R-NT2RP2000114           | 7690 |
|    | NT2RP2000120 | F-NT2RP2000120 | 2593 | R-NT2RP2000120           | 7691 |
| 5  | NT2RP2000126 | F-NT2RP2000126 | 2594 | R-ntntntntntntntntntntnt | 7692 |
|    | NT2RP2000133 | F-NT2RP2000133 | 2595 | R-ntntntntntntntntntntnt | 7693 |
|    | NT2RP2000147 | F-NT2RP2000147 | 2596 | R-NT2RP2000147           | 7694 |
|    | NT2RP2000153 | F-NT2RP2000153 | 2597 | R-NT2RP2000153           | 7695 |
|    | NT2RP2000157 | F-NT2RP2000157 | 2598 | R-NT2RP2000157           | 7696 |
| 10 | NT2RP2000161 | F-NT2RP2000161 | 2599 | R-NT2RP2000161           | 7697 |
|    | NT2RP2000173 | F-NT2RP2000173 | 2600 |                          |      |
|    | NT2RP2000175 | F-NT2RP2000175 | 2601 | R-NT2RP2000175           | 7698 |
|    | NT2RP2000183 | F-NT2RP2000183 | 2602 | R-NT2RP2000183           | 7699 |
| 15 | NT2RP2000195 | F-NT2RP2000195 | 2603 | R-NT2RP2000195           | 7700 |
|    | NT2RP2000205 | F-NT2RP2000205 | 2604 | R-NT2RP2000205           | 7701 |
|    | NT2RP2000208 | F-NT2RP2000208 | 2605 |                          |      |
|    | NT2RP2000224 | F-NT2RP2000224 | 2606 | R-NT2RP2000224           | 7702 |
| 20 | NT2RP2000232 | F-NT2RP2000232 | 2607 | R-NT2RP2000232           | 7703 |
|    | NT2RP2000233 | F-NT2RP2000233 | 2608 | R-NT2RP2000233           | 7704 |
|    | NT2RP2000239 | F-NT2RP2000239 | 2609 | R-NT2RP2000239           | 7705 |
|    | NT2RP2000248 | F-NT2RP2000248 | 2610 | R-NT2RP2000248           | 7706 |
|    | NT2RP2000257 | F-NT2RP2000257 | 2611 | R-NT2RP2000257           | 7707 |
| 25 | NT2RP2000258 | F-NT2RP2000258 | 2612 | R-NT2RP2000258           | 7708 |
|    | NT2RP2000270 | F-NT2RP2000270 | 2613 | R-NT2RP2000270           | 7709 |
|    | NT2RP2000274 | F-NT2RP2000274 | 2614 | R-NT2RP2000274           | 7710 |
|    | NT2RP2000283 | F-NT2RP2000283 | 2615 |                          |      |
| 30 | NT2RP2000288 | F-NT2RP2000288 | 2616 | R-NT2RP2000288           | 7711 |
|    | NT2RP2000289 | F-NT2RP2000289 | 2617 | R-NT2RP2000289           | 7712 |
|    | NT2RP2000297 | F-NT2RP2000297 | 2618 | R-NT2RP2000297           | 7713 |
|    | NT2RP2000298 | F-NT2RP2000298 | 2619 | R-NT2RP2000298           | 7714 |
| 35 | NT2RP2000310 | F-NT2RP2000310 | 2620 | R-NT2RP2000310           | 7715 |
|    | NT2RP2000327 | F-NT2RP2000327 | 2621 | R-NT2RP2000327           | 7716 |
|    | NT2RP2000328 | F-NT2RP2000328 | 2622 |                          |      |
|    | NT2RP2000329 | F-NT2RP2000329 | 2623 | R-NT2RP2000329           | 7717 |
| 40 | NT2RP2000337 | F-NT2RP2000337 | 2624 | R-NT2RP2000337           | 7718 |
|    | NT2RP2000346 | F-NT2RP2000346 | 2625 | R-NT2RP2000346           | 7719 |
|    | NT2RP2000369 | F-NT2RP2000369 | 2626 | R-NT2RP2000369           | 7720 |
|    | NT2RP2000412 | F-NT2RP2000412 | 2627 |                          |      |
|    | NT2RP2000414 | F-NT2RP2000414 | 2628 | R-NT2RP2000414           | 7721 |
| 45 | NT2RP2000420 | F-NT2RP2000420 | 2629 | R-NT2RP2000420           | 7722 |
|    | NT2RP2000422 | F-NT2RP2000422 | 2630 | R-NT2RP2000422           | 7723 |
|    | NT2RP2000438 | F-NT2RP2000438 | 2631 | R-NT2RP2000438           | 7724 |
|    | NT2RP2000448 | F-NT2RP2000448 | 2632 | R-NT2RP2000448           | 7725 |
| 50 | NT2RP2000459 | F-NT2RP2000459 | 2633 | R-NT2RP2000459           | 7726 |
|    | NT2RP2000498 | F-NT2RP2000498 | 2634 | R-NT2RP2000498           | 7727 |
|    | NT2RP2000503 | F-NT2RP2000503 | 2635 | R-NT2RP2000503           | 7728 |
|    | NT2RP2000510 | F-NT2RP2000510 | 2636 | R-NT2RP2000510           | 7729 |
| 55 | NT2RP2000516 | F-NT2RP2000516 | 2637 | R-ntntntntntntntntntntnt | 7730 |

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|    | NT2RP2000523 | F-NT2RP2000523 | 2638 | R-NT2RP2000523           | 7731 |
|    | NT2RP2000603 | F-NT2RP2000603 | 2639 | R-NT2RP2000603           | 7732 |
|    | NT2RP2000617 | F-NT2RP2000617 | 2640 | R-NT2RP2000617           | 7733 |
| 5  | NT2RP2000634 | F-NT2RP2000634 | 2641 | R-NT2RP2000634           | 7734 |
|    | NT2RP2000644 | F-NT2RP2000644 | 2642 | R-NT2RP2000644           | 7735 |
|    | NT2RP2000656 | F-NT2RP2000656 | 2643 | R-NT2RP2000656           | 7736 |
|    | NT2RP2000658 | F-NT2RP2000658 | 2644 | R-NT2RP2000658           | 7737 |
| 10 | NT2RP2000668 | F-NT2RP2000668 | 2645 | R-NT2RP2000668           | 7738 |
|    | NT2RP2000678 | F-NT2RP2000678 | 2646 | R-NT2RP2000678           | 7739 |
|    | NT2RP2000704 | F-NT2RP2000704 | 2647 |                          |      |
|    | NT2RP2000710 | F-NT2RP2000710 | 2648 | R-NT2RP2000710           | 7740 |
| 15 | NT2RP2000715 | F-NT2RP2000715 | 2649 | R-NT2RP2000715           | 7741 |
|    | NT2RP2000731 | F-NT2RP2000731 | 2650 | R-NT2RP2000731           | 7742 |
|    | NT2RP2000758 | F-NT2RP2000758 | 2651 | R-NT2RP2000758           | 7743 |
|    | NT2RP2000764 | F-NT2RP2000764 | 2652 | R-NT2RP2000764           | 7744 |
| 20 | NT2RP2000809 | F-NT2RP2000809 | 2653 | R-NT2RP2000809           | 7745 |
|    | NT2RP2000812 | F-NT2RP2000812 | 2654 | R-NT2RP2000812           | 7746 |
|    | NT2RP2000814 | F-NT2RP2000814 | 2655 | R-ntntntntntntntntntntnt | 7747 |
|    | NT2RP2000816 | F-NT2RP2000816 | 2656 | R-NT2RP2000816           | 7748 |
|    | NT2RP2000819 | F-NT2RP2000819 | 2657 | R-NT2RP2000819           | 7749 |
| 25 | NT2RP2000841 | F-NT2RP2000841 | 2658 | R-NT2RP2000841           | 7750 |
|    | NT2RP2000842 | F-NT2RP2000842 | 2659 | R-NT2RP2000842           | 7751 |
|    | NT2RP2000845 | F-NT2RP2000845 | 2660 | R-NT2RP2000845           | 7752 |
|    | NT2RP2000863 | F-NT2RP2000863 | 2661 | R-NT2RP2000863           | 7753 |
| 30 | NT2RP2000880 | F-NT2RP2000880 | 2662 | R-NT2RP2000880           | 7754 |
|    | NT2RP2000892 | F-NT2RP2000892 | 2663 | R-NT2RP2000892           | 7755 |
|    | NT2RP2000931 | F-NT2RP2000931 | 2664 | R-NT2RP2000931           | 7756 |
|    | NT2RP2000932 | F-NT2RP2000932 | 2665 |                          |      |
| 35 | NT2RP2000938 | F-NT2RP2000938 | 2666 | R-NT2RP2000938           | 7757 |
|    | NT2RP2000943 | F-NT2RP2000943 | 2667 | R-NT2RP2000943           | 7758 |
|    | NT2RP2000965 | F-NT2RP2000965 | 2668 | R-NT2RP2000965           | 7759 |
|    | NT2RP2000970 | F-NT2RP2000970 | 2669 | R-NT2RP2000970           | 7760 |
| 40 | NT2RP2000985 | F-NT2RP2000985 | 2670 | R-NT2RP2000985           | 7761 |
|    | NT2RP2000987 | F-NT2RP2000987 | 2671 | R-NT2RP2000987           | 7762 |
|    | NT2RP2001036 | F-NT2RP2001036 | 2672 | R-NT2RP2001036           | 7763 |
|    | NT2RP2001044 | F-NT2RP2001044 | 2673 | R-NT2RP2001044           | 7764 |
| 45 | NT2RP2001056 | F-NT2RP2001056 | 2674 |                          |      |
|    | NT2RP2001065 | F-NT2RP2001065 | 2675 | R-NT2RP2001065           | 7765 |
|    | NT2RP2001070 | F-NT2RP2001070 | 2676 | R-NT2RP2001070           | 7766 |
|    | NT2RP2001081 | F-NT2RP2001081 | 2677 |                          |      |
|    | NT2RP2001094 | F-NT2RP2001094 | 2678 | R-NT2RP2001094           | 7767 |
| 50 | NT2RP2001119 | F-NT2RP2001119 | 2679 | R-NT2RP2001119           | 7768 |
|    | NT2RP2001127 | F-NT2RP2001127 | 2680 | R-NT2RP2001127           | 7769 |
|    | NT2RP2001137 | F-NT2RP2001137 | 2681 | R-NT2RP2001137           | 7770 |
|    | NT2RP2001149 | F-NT2RP2001149 | 2682 | R-NT2RP2001149           | 7771 |
| 55 | NT2RP2001168 | F-NT2RP2001168 | 2683 | R-NT2RP2001168           | 7772 |

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|    | NT2RP2001173 | F-NT2RP2001173 | 2684 | R-NT2RP2001173 | 7773 |
|    | NT2RP2001174 | F-NT2RP2001174 | 2685 | R-NT2RP2001174 | 7774 |
|    | NT2RP2001196 | F-NT2RP2001196 | 2686 | R-NT2RP2001196 | 7775 |
| 5  | NT2RP2001218 | F-NT2RP2001218 | 2687 | R-NT2RP2001218 | 7776 |
|    | NT2RP2001226 | F-NT2RP2001226 | 2688 | R-NT2RP2001226 | 7777 |
|    | NT2RP2001233 | F-NT2RP2001233 | 2689 | R-NT2RP2001233 | 7778 |
|    | NT2RP2001245 | F-NT2RP2001245 | 2690 | R-NT2RP2001245 | 7779 |
| 10 | NT2RP2001268 | F-NT2RP2001268 | 2691 | R-NT2RP2001268 | 7780 |
|    | NT2RP2001277 | F-NT2RP2001277 | 2692 | R-NT2RP2001277 | 7781 |
|    | NT2RP2001290 | F-NT2RP2001290 | 2693 | R-NT2RP2001290 | 7782 |
|    | NT2RP2001295 | F-NT2RP2001295 | 2694 | R-NT2RP2001295 | 7783 |
| 15 | NT2RP2001312 | F-NT2RP2001312 | 2695 | R-NT2RP2001312 | 7784 |
|    | NT2RP2001327 | F-NT2RP2001327 | 2696 | R-NT2RP2001327 | 7785 |
|    | NT2RP2001328 | F-NT2RP2001328 | 2697 | R-NT2RP2001328 | 7786 |
|    | NT2RP2001347 | F-NT2RP2001347 | 2698 | R-NT2RP2001347 | 7787 |
| 20 | NT2RP2001366 | F-NT2RP2001366 | 2699 |                |      |
|    | NT2RP2001378 | F-NT2RP2001378 | 2700 | R-NT2RP2001378 | 7788 |
|    | NT2RP2001381 | F-NT2RP2001381 | 2701 | R-NT2RP2001381 | 7789 |
|    | NT2RP2001392 | F-NT2RP2001392 | 2702 | R-NT2RP2001392 | 7790 |
|    | NT2RP2001394 | F-NT2RP2001394 | 2703 | R-NT2RP2001394 | 7791 |
| 25 | NT2RP2001397 | F-NT2RP2001397 | 2704 | R-NT2RP2001397 | 7792 |
|    | NT2RP2001420 | F-NT2RP2001420 | 2705 | R-NT2RP2001420 | 7793 |
|    | NT2RP2001423 | F-NT2RP2001423 | 2706 | R-NT2RP2001423 | 7794 |
|    | NT2RP2001427 | F-NT2RP2001427 | 2707 | R-NT2RP2001427 | 7795 |
| 30 | NT2RP2001436 | F-NT2RP2001436 | 2708 | R-NT2RP2001436 | 7796 |
|    | NT2RP2001440 | F-NT2RP2001440 | 2709 | R-NT2RP2001440 | 7797 |
|    | NT2RP2001445 | F-NT2RP2001445 | 2710 | R-NT2RP2001445 | 7798 |
|    | NT2RP2001449 | F-NT2RP2001449 | 2711 | R-NT2RP2001449 | 7799 |
| 35 | NT2RP2001450 | F-NT2RP2001450 | 2712 | R-NT2RP2001450 | 7800 |
|    | NT2RP2001467 | F-NT2RP2001467 | 2713 | R-NT2RP2001467 | 7801 |
|    | NT2RP2001506 | F-NT2RP2001506 | 2714 | R-NT2RP2001506 | 7802 |
|    | NT2RP2001511 | F-NT2RP2001511 | 2715 | R-NT2RP2001511 | 7803 |
| 40 | NT2RP2001520 | F-NT2RP2001520 | 2716 | R-NT2RP2001520 | 7804 |
|    | NT2RP2001526 | F-NT2RP2001526 | 2717 | R-NT2RP2001526 | 7805 |
|    | NT2RP2001536 | F-NT2RP2001536 | 2718 | R-NT2RP2001536 | 7806 |
|    | NT2RP2001560 | F-NT2RP2001560 | 2719 | R-NT2RP2001560 | 7807 |
| 45 | NT2RP2001569 | F-NT2RP2001569 | 2720 | R-NT2RP2001569 | 7808 |
|    | NT2RP2001576 | F-NT2RP2001576 | 2721 | R-NT2RP2001576 | 7809 |
|    | NT2RP2001581 | F-NT2RP2001581 | 2722 | R-NT2RP2001581 | 7810 |
|    | NT2RP2001597 | F-NT2RP2001597 | 2723 | R-NT2RP2001597 | 7811 |
|    | NT2RP2001601 | F-NT2RP2001601 | 2724 | R-NT2RP2001601 | 7812 |
| 50 | NT2RP2001613 | F-NT2RP2001613 | 2725 | R-NT2RP2001613 | 7813 |
|    | NT2RP2001628 | F-NT2RP2001628 | 2726 | R-NT2RP2001628 | 7814 |
|    | NT2RP2001634 | F-NT2RP2001634 | 2727 |                |      |
|    | NT2RP2001660 | F-NT2RP2001660 | 2728 |                |      |
| 55 | NT2RP2001663 | F-NT2RP2001663 | 2729 | R-NT2RP2001663 | 7815 |

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|    | NT2RP2001675 | F-NT2RP2001675 | 2730 |                |      |
|    | NT2RP2001677 | F-NT2RP2001677 | 2731 | R-NT2RP2001677 | 7816 |
|    | NT2RP2001678 | F-NT2RP2001678 | 2732 | R-NT2RP2001678 | 7817 |
| 5  | NT2RP2001699 | F-NT2RP2001699 | 2733 | R-NT2RP2001699 | 7818 |
|    | NT2RP2001720 | F-NT2RP2001720 | 2734 | R-NT2RP2001720 | 7819 |
|    | NT2RP2001721 | F-NT2RP2001721 | 2735 | R-NT2RP2001721 | 7820 |
|    | NT2RP2001740 | F-NT2RP2001740 | 2736 | R-NT2RP2001740 | 7821 |
| 10 | NT2RP2001748 | F-NT2RP2001748 | 2737 | R-NT2RP2001748 | 7822 |
|    | NT2RP2001762 | F-NT2RP2001762 | 2738 | R-NT2RP2001762 | 7823 |
|    | NT2RP2001813 | F-NT2RP2001813 | 2739 | R-NT2RP2001813 | 7824 |
|    | NT2RP2001839 | F-NT2RP2001839 | 2740 |                |      |
| 15 | NT2RP2001861 | F-NT2RP2001861 | 2741 | R-NT2RP2001861 | 7825 |
|    | NT2RP2001869 | F-NT2RP2001869 | 2742 | R-NT2RP2001869 | 7826 |
|    | NT2RP2001876 | F-NT2RP2001876 | 2743 | R-NT2RP2001876 | 7827 |
|    | NT2RP2001883 | F-NT2RP2001883 | 2744 | R-NT2RP2001883 | 7828 |
| 20 | NT2RP2001898 | F-NT2RP2001898 | 2745 |                |      |
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|    | NT2RP2001907 | F-NT2RP2001907 | 2747 | R-NT2RP2001907 | 7830 |
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| 25 | NT2RP2001943 | F-NT2RP2001943 | 2750 | R-NT2RP2001943 | 7833 |
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|    | NT2RP2001985 | F-NT2RP2001985 | 2755 | R-NT2RP2001985 | 7838 |
|    | NT2RP2001991 | F-NT2RP2001991 | 2756 |                |      |
|    | NT2RP2002025 | F-NT2RP2002025 | 2757 | R-NT2RP2002025 | 7839 |
| 35 | NT2RP2002032 | F-NT2RP2002032 | 2758 | R-NT2RP2002032 | 7840 |
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|    | NT2RP2002058 | F-NT2RP2002058 | 2763 | R-NT2RP2002058 | 7845 |
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| 45 | NT2RP2002076 | F-NT2RP2002076 | 2766 | R-NT2RP2002076 | 7848 |
|    | NT2RP2002078 | F-NT2RP2002078 | 2767 |                |      |
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|    | NT2RP2002099 | F-NT2RP2002099 | 2769 | R-NT2RP2002099 | 7850 |
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| 50 | NT2RP2002124 | F-NT2RP2002124 | 2771 | R-NT2RP2002124 | 7852 |
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|    | NT2RP2002172 | F-NT2RP2002172 | 2774 | R-NT2RP2002172 | 7855 |
| 55 | NT2RP2002185 | F-NT2RP2002185 | 2775 | R-NT2RP2002185 | 7856 |

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|    | NT2RP2002537 | F-NT2RP2002537 | 2806 | R-NT2RP2002537  | 7884 |
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| 40 | NT2RP2002549 | F-NT2RP2002549 | 2808 | R-NT2RP2002549  | 7886 |
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|    | NT2RP2002609 | F-NT2RP2002609 | 2812 | R-NT2RP2002609  | 7890 |
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|    | NT2RP2002621 | F-NT2RP2002621 | 2814 | R-NT2RP2002621  | 7892 |
|    | NT2RP2002643 | F-NT2RP2002643 | 2815 | R-NT2RP2002643  | 7893 |
|    | NT2RP2002672 | F-NT2RP2002672 | 2816 | R-NT2RP2002672  | 7894 |
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|    | NT2RP2002710 | F-NT2RP2002710 | 2819 | R-NT2RP2002710  | 7897 |
|    | NT2RP2002727 | F-NT2RP2002727 | 2820 | R-NT2RP2002727  | 7898 |
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|    | NT2RP2002862 | F-NT2RP2002862 | 2832 | R-NT2RP2002862 | 7910 |
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| 20 | NT2RP2002929 | F-NT2RP2002929 | 2837 | R-NT2RP2002929 | 7915 |
|    | NT2RP2002939 | F-NT2RP2002939 | 2838 |                |      |
|    | NT2RP2002954 | F-NT2RP2002954 | 2839 | R-NT2RP2002954 | 7916 |
|    | NT2RP2002959 | F-NT2RP2002959 | 2840 | R-NT2RP2002959 | 7917 |
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|    | NT2RP2002987 | F-NT2RP2002987 | 2844 | R-NT2RP2002987 | 7921 |
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|    | NT2RP2003034 | F-NT2RP2003034 | 2847 | R-NT2RP2003034 | 7924 |
|    | NT2RP2003073 | F-NT2RP2003073 | 2848 | R-NT2RP2003073 | 7925 |
|    | NT2RP2003099 | F-NT2RP2003099 | 2849 | R-NT2RP2003099 | 7926 |
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|    | NT2RP2003117 | F-NT2RP2003117 | 2851 | R-NT2RP2003117 | 7928 |
|    | NT2RP2003121 | F-NT2RP2003121 | 2852 | R-NT2RP2003121 | 7929 |
|    | NT2RP2003125 | F-NT2RP2003125 | 2853 | R-NT2RP2003125 | 7930 |
| 40 | NT2RP2003129 | F-NT2RP2003129 | 2854 | R-NT2RP2003129 | 7931 |
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|    | NT2RP2003157 | F-NT2RP2003157 | 2856 |                |      |
|    | NT2RP2003158 | F-NT2RP2003158 | 2857 |                |      |
| 45 | NT2RP2003161 | F-NT2RP2003161 | 2858 | R-NT2RP2003161 | 7933 |
|    | NT2RP2003164 | F-NT2RP2003164 | 2859 | R-NT2RP2003164 | 7934 |
|    | NT2RP2003165 | F-NT2RP2003165 | 2860 | R-NT2RP2003165 | 7935 |
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|    | NT2RP2003194 | F-NT2RP2003194 | 2862 | R-NT2RP2003194 | 7937 |
| 50 | NT2RP2003206 | F-NT2RP2003206 | 2863 | R-NT2RP2003206 | 7938 |
|    | NT2RP2003228 | F-NT2RP2003228 | 2864 |                |      |
|    | NT2RP2003230 | F-NT2RP2003230 | 2865 | R-NT2RP2003230 | 7939 |
|    | NT2RP2003237 | F-NT2RP2003237 | 2866 | R-NT2RP2003237 | 7940 |
| 55 | NT2RP2003243 | F-NT2RP2003243 | 2867 | R-NT2RP2003243 | 7941 |

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|    | NT2RP2003295 | F-NT2RP2003295 | 2874 | R-NT2RP2003295 | 7948 |
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|    | NT2RP2003329 | F-NT2RP2003329 | 2878 | R-NT2RP2003329 | 7951 |
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|    | NT2RP2003347 | F-NT2RP2003347 | 2880 | R-NT2RP2003347 | 7953 |
|    | NT2RP2003367 | F-NT2RP2003367 | 2881 | R-NT2RP2003367 | 7954 |
|    | NT2RP2003391 | F-NT2RP2003391 | 2882 | R-NT2RP2003391 | 7955 |
| 20 | NT2RP2003393 | F-NT2RP2003393 | 2883 | R-NT2RP2003393 | 7956 |
|    | NT2RP2003394 | F-NT2RP2003394 | 2884 | R-NT2RP2003394 | 7957 |
|    | NT2RP2003401 | F-NT2RP2003401 | 2885 | R-NT2RP2003401 | 7958 |
|    | NT2RP2003433 | F-NT2RP2003433 | 2886 | R-NT2RP2003433 | 7959 |
|    | NT2RP2003445 | F-NT2RP2003445 | 2887 | R-NT2RP2003445 | 7960 |
| 25 | NT2RP2003446 | F-NT2RP2003446 | 2888 | R-NT2RP2003446 | 7961 |
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|    | NT2RP2003466 | F-NT2RP2003466 | 2890 |                |      |
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| 30 | NT2RP2003499 | F-NT2RP2003499 | 2892 | R-NT2RP2003499 | 7964 |
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|    | NT2RP2003513 | F-NT2RP2003513 | 2895 | R-NT2RP2003513 | 7967 |
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|    | NT2RP2003533 | F-NT2RP2003533 | 2898 | R-NT2RP2003533 | 7970 |
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|    | NT2RP2003564 | F-NT2RP2003564 | 2901 | R-NT2RP2003564 | 7973 |
|    | NT2RP2003567 | F-NT2RP2003567 | 2902 |                |      |
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|    | NT2RP2003596 | F-NT2RP2003596 | 2904 | R-NT2RP2003596 | 7975 |
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|    | NT2RP2003691 | F-NT2RP2003691 | 2910 | R-NT2RP2003691 | 7981 |
|    | NT2RP2003702 | F-NT2RP2003702 | 2911 | R-NT2RP2003702 | 7982 |
|    | NT2RP2003704 | F-NT2RP2003704 | 2912 | R-NT2RP2003704 | 7983 |
| 55 | NT2RP2003706 | F-NT2RP2003706 | 2913 | R-NT2RP2003706 | 7984 |

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|    | NT2RP2003714 | F-NT2RP2003714 | 2915 | R-NT2RP2003714           | 7986 |
|    | NT2RP2003727 | F-NT2RP2003727 | 2916 | R-ntntntntntntntntntntnt | 7987 |
| 5  | NT2RP2003737 | F-NT2RP2003737 | 2917 | R-NT2RP2003737           | 7988 |
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|    | NT2RP2003760 | F-NT2RP2003760 | 2919 | R-NT2RP2003760           | 7990 |
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|    | NT2RP2003770 | F-NT2RP2003770 | 2922 | R-NT2RP2003770           | 7993 |
|    | NT2RP2003777 | F-NT2RP2003777 | 2923 | R-NT2RP2003777           | 7994 |
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| 15 | NT2RP2003793 | F-NT2RP2003793 | 2925 | R-NT2RP2003793           | 7996 |
|    | NT2RP2003825 | F-NT2RP2003825 | 2926 |                          |      |
|    | NT2RP2003840 | F-NT2RP2003840 | 2927 | R-NT2RP2003840           | 7997 |
|    | NT2RP2003857 | F-NT2RP2003857 | 2928 | R-NT2RP2003857           | 7998 |
| 20 | NT2RP2003859 | F-NT2RP2003859 | 2929 | R-NT2RP2003859           | 7999 |
|    | NT2RP2003871 | F-NT2RP2003871 | 2930 | R-NT2RP2003871           | 8000 |
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|    | NT2RP2003912 | F-NT2RP2003912 | 2932 | R-NT2RP2003912           | 8002 |
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|    | NT2RP2003976 | F-NT2RP2003976 | 2935 | R-NT2RP2003976           | 8005 |
|    | NT2RP2003981 | F-NT2RP2003981 | 2936 | R-NT2RP2003981           | 8006 |
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| 35 | NT2RP2004041 | F-NT2RP2004041 | 2942 | R-NT2RP2004041           | 8011 |
|    | NT2RP2004042 | F-NT2RP2004042 | 2943 | R-NT2RP2004042           | 8012 |
|    | NT2RP2004066 | F-NT2RP2004066 | 2944 | R-ntntntntntntntntntntnt | 8013 |
|    | NT2RP2004081 | F-NT2RP2004081 | 2945 | R-NT2RP2004081           | 8014 |
| 40 | NT2RP2004098 | F-NT2RP2004098 | 2946 | R-NT2RP2004098           | 8015 |
|    | NT2RP2004124 | F-NT2RP2004124 | 2947 | R-NT2RP2004124           | 8016 |
|    | NT2RP2004142 | F-NT2RP2004142 | 2948 | R-NT2RP2004142           | 8017 |
|    | NT2RP2004152 | F-NT2RP2004152 | 2949 | R-NT2RP2004152           | 8018 |
| 45 | NT2RP2004165 | F-NT2RP2004165 | 2950 | R-NT2RP2004165           | 8019 |
|    | NT2RP2004170 | F-NT2RP2004170 | 2951 | R-NT2RP2004170           | 8020 |
|    | NT2RP2004172 | F-NT2RP2004172 | 2952 | R-NT2RP2004172           | 8021 |
|    | NT2RP2004187 | F-NT2RP2004187 | 2953 | R-NT2RP2004187           | 8022 |
|    | NT2RP2004194 | F-NT2RP2004194 | 2954 | R-NT2RP2004194           | 8023 |
| 50 | NT2RP2004196 | F-NT2RP2004196 | 2955 | R-NT2RP2004196           | 8024 |
|    | NT2RP2004207 | F-NT2RP2004207 | 2956 | R-NT2RP2004207           | 8025 |
|    | NT2RP2004226 | F-NT2RP2004226 | 2957 | R-NT2RP2004226           | 8026 |
|    | NT2RP2004232 | F-NT2RP2004232 | 2958 | R-NT2RP2004232           | 8027 |
| 55 | NT2RP2004239 | F-NT2RP2004239 | 2959 | R-NT2RP2004239           | 8028 |



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| 5  | NT2RP2004270 | F-NT2RP2004270 | 2963 | R-NT2RP2004270 | 8032 |
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|    | NT2RP2004316 | F-NT2RP2004316 | 2965 | R-NT2RP2004316 | 8034 |
|    | NT2RP2004321 | F-NT2RP2004321 | 2966 | R-NT2RP2004321 | 8035 |
| 10 | NT2RP2004339 | F-NT2RP2004339 | 2967 | R-NT2RP2004339 | 8036 |
|    | NT2RP2004347 | F-NT2RP2004347 | 2968 | R-NT2RP2004347 | 8037 |
|    | NT2RP2004364 | F-NT2RP2004364 | 2969 | R-NT2RP2004364 | 8038 |
|    | NT2RP2004365 | F-NT2RP2004365 | 2970 | R-NT2RP2004365 | 8039 |
| 15 | NT2RP2004366 | F-NT2RP2004366 | 2971 | R-NT2RP2004366 | 8040 |
|    | NT2RP2004373 | F-NT2RP2004373 | 2972 | R-NT2RP2004373 | 8041 |
|    | NT2RP2004389 | F-NT2RP2004389 | 2973 | R-NT2RP2004389 | 8042 |
|    | NT2RP2004392 | F-NT2RP2004392 | 2974 | R-NT2RP2004392 | 8043 |
| 20 | NT2RP2004396 | F-NT2RP2004396 | 2975 | R-NT2RP2004396 | 8044 |
|    | NT2RP2004399 | F-NT2RP2004399 | 2976 | R-NT2RP2004399 | 8045 |
|    | NT2RP2004400 | F-NT2RP2004400 | 2977 | R-NT2RP2004400 | 8046 |
|    | NT2RP2004412 | F-NT2RP2004412 | 2978 | R-NT2RP2004412 | 8047 |
|    | NT2RP2004425 | F-NT2RP2004425 | 2979 | R-NT2RP2004425 | 8048 |
| 25 | NT2RP2004463 | F-NT2RP2004463 | 2980 |                |      |
|    | NT2RP2004476 | F-NT2RP2004476 | 2981 | R-NT2RP2004476 | 8049 |
|    | NT2RP2004490 | F-NT2RP2004490 | 2982 | R-NT2RP2004490 | 8050 |
|    | NT2RP2004512 | F-NT2RP2004512 | 2983 | R-NT2RP2004512 | 8051 |
| 30 | NT2RP2004523 | F-NT2RP2004523 | 2984 | R-NT2RP2004523 | 8052 |
|    | NT2RP2004538 | F-NT2RP2004538 | 2985 | R-NT2RP2004538 | 8053 |
|    | NT2RP2004551 | F-NT2RP2004551 | 2986 | R-NT2RP2004551 | 8054 |
|    | NT2RP2004568 | F-NT2RP2004568 | 2987 | R-NT2RP2004568 | 8055 |
| 35 | NT2RP2004580 | F-NT2RP2004580 | 2988 | R-NT2RP2004580 | 8056 |
|    | NT2RP2004587 | F-NT2RP2004587 | 2989 | R-NT2RP2004587 | 8057 |
|    | NT2RP2004594 | F-NT2RP2004594 | 2990 | R-NT2RP2004594 | 8058 |
|    | NT2RP2004600 | F-NT2RP2004600 | 2991 | R-NT2RP2004600 | 8059 |
| 40 | NT2RP2004602 | F-NT2RP2004602 | 2992 | R-NT2RP2004602 | 8060 |
|    | NT2RP2004614 | F-NT2RP2004614 | 2993 | R-NT2RP2004614 | 8061 |
|    | NT2RP2004655 | F-NT2RP2004655 | 2994 | R-NT2RP2004655 | 8062 |
|    | NT2RP2004664 | F-NT2RP2004664 | 2995 | R-NT2RP2004664 | 8063 |
|    | NT2RP2004675 | F-NT2RP2004675 | 2996 | R-NT2RP2004675 | 8064 |
| 45 | NT2RP2004681 | F-NT2RP2004681 | 2997 | R-NT2RP2004681 | 8065 |
|    | NT2RP2004689 | F-NT2RP2004689 | 2998 | R-NT2RP2004689 | 8066 |
|    | NT2RP2004709 | F-NT2RP2004709 | 2999 | R-NT2RP2004709 | 8067 |
|    | NT2RP2004710 | F-NT2RP2004710 | 3000 | R-NT2RP2004710 | 8068 |
| 50 | NT2RP2004736 | F-NT2RP2004736 | 3001 | R-NT2RP2004736 | 8069 |
|    | NT2RP2004743 | F-NT2RP2004743 | 3002 | R-NT2RP2004743 | 8070 |
|    | NT2RP2004767 | F-NT2RP2004767 | 3003 | R-NT2RP2004767 | 8071 |
|    | NT2RP2004768 | F-NT2RP2004768 | 3004 |                |      |
| 55 | NT2RP2004775 | F-NT2RP2004775 | 3005 | R-NT2RP2004775 | 8072 |

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|    | NT2RP2004791 | F-NT2RP2004791 | 3006 | R-NT2RP2004791         | 8073 |
|    | NT2RP2004799 | F-NT2RP2004799 | 3007 | R-NT2RP2004799         | 8074 |
|    | NT2RP2004802 | F-NT2RP2004802 | 3008 | R-NT2RP2004802         | 8075 |
| 5  | NT2RP2004816 | F-NT2RP2004816 | 3009 | R-NT2RP2004816         | 8076 |
|    | NT2RP2004841 | F-NT2RP2004841 | 3010 | R-NT2RP2004841         | 8077 |
|    | NT2RP2004861 | F-NT2RP2004861 | 3011 | R-NT2RP2004861         | 8078 |
|    | NT2RP2004897 | F-NT2RP2004897 | 3012 | R-NT2RP2004897         | 8079 |
| 10 | NT2RP2004933 | F-NT2RP2004933 | 3013 |                        |      |
|    | NT2RP2004936 | F-NT2RP2004936 | 3014 | R-NT2RP2004936         | 8080 |
|    | NT2RP2004959 | F-NT2RP2004959 | 3015 | R-ntntntntntntntntntnt | 8081 |
|    | NT2RP2004961 | F-NT2RP2004961 | 3016 | R-NT2RP2004961         | 8082 |
| 15 | NT2RP2004962 | F-NT2RP2004962 | 3017 | R-NT2RP2004962         | 8083 |
|    | NT2RP2004967 | F-NT2RP2004967 | 3018 | R-NT2RP2004967         | 8084 |
|    | NT2RP2004978 | F-NT2RP2004978 | 3019 | R-NT2RP2004978         | 8085 |
|    | NT2RP2004982 | F-NT2RP2004982 | 3020 | R-NT2RP2004982         | 8086 |
| 20 | NT2RP2004985 | F-NT2RP2004985 | 3021 | R-NT2RP2004985         | 8087 |
|    | NT2RP2004999 | F-NT2RP2004999 | 3022 | R-NT2RP2004999         | 8088 |
|    | NT2RP2005000 | F-NT2RP2005000 | 3023 | R-NT2RP2005000         | 8089 |
|    | NT2RP2005001 | F-NT2RP2005001 | 3024 | R-NT2RP2005001         | 8090 |
|    | NT2RP2005003 | F-NT2RP2005003 | 3025 | R-NT2RP2005003         | 8091 |
| 25 | NT2RP2005012 | F-NT2RP2005012 | 3026 | R-ntntntntntntntntntnt | 8092 |
|    | NT2RP2005018 | F-NT2RP2005018 | 3027 | R-NT2RP2005018         | 8093 |
|    | NT2RP2005020 | F-NT2RP2005020 | 3028 | R-NT2RP2005020         | 8094 |
|    | NT2RP2005022 | F-NT2RP2005022 | 3029 |                        |      |
| 30 | NT2RP2005031 | F-NT2RP2005031 | 3030 | R-NT2RP2005031         | 8095 |
|    | NT2RP2005037 | F-NT2RP2005037 | 3031 | R-NT2RP2005037         | 8096 |
|    | NT2RP2005038 | F-NT2RP2005038 | 3032 | R-NT2RP2005038         | 8097 |
|    | NT2RP2005108 | F-NT2RP2005108 | 3033 | R-NT2RP2005108         | 8098 |
| 35 | NT2RP2005116 | F-NT2RP2005116 | 3034 | R-NT2RP2005116         | 8099 |
|    | NT2RP2005126 | F-NT2RP2005126 | 3035 | R-NT2RP2005126         | 8100 |
|    | NT2RP2005139 | F-NT2RP2005139 | 3036 | R-NT2RP2005139         | 8101 |
|    | NT2RP2005140 | F-NT2RP2005140 | 3037 | R-NT2RP2005140         | 8102 |
| 40 | NT2RP2005144 | F-NT2RP2005144 | 3038 | R-NT2RP2005144         | 8103 |
|    | NT2RP2005147 | F-NT2RP2005147 | 3039 | R-NT2RP2005147         | 8104 |
|    | NT2RP2005159 | F-NT2RP2005159 | 3040 | R-NT2RP2005159         | 8105 |
|    | NT2RP2005162 | F-NT2RP2005162 | 3041 | R-NT2RP2005162         | 8106 |
|    | NT2RP2005168 | F-NT2RP2005168 | 3042 | R-NT2RP2005168         | 8107 |
| 45 | NT2RP2005204 | F-NT2RP2005204 | 3043 | R-NT2RP2005204         | 8108 |
|    | NT2RP2005227 | F-NT2RP2005227 | 3044 | R-NT2RP2005227         | 8109 |
|    | NT2RP2005239 | F-NT2RP2005239 | 3045 | R-NT2RP2005239         | 8110 |
|    | NT2RP2005254 | F-NT2RP2005254 | 3046 | R-NT2RP2005254         | 8111 |
| 50 | NT2RP2005270 | F-NT2RP2005270 | 3047 | R-NT2RP2005270         | 8112 |
|    | NT2RP2005276 | F-NT2RP2005276 | 3048 | R-NT2RP2005276         | 8113 |
|    | NT2RP2005287 | F-NT2RP2005287 | 3049 | R-NT2RP2005287         | 8114 |
|    | NT2RP2005288 | F-NT2RP2005288 | 3050 | R-NT2RP2005288         | 8115 |
| 55 | NT2RP2005289 | F-NT2RP2005289 | 3051 | R-NT2RP2005289         | 8116 |

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|    | NT2RP2005293 | F-NT2RP2005293 | 3052 | R-NT2RP2005293 | 8117 |
|    | NT2RP2005315 | F-NT2RP2005315 | 3053 | R-NT2RP2005315 | 8118 |
|    | NT2RP2005325 | F-NT2RP2005325 | 3054 | R-NT2RP2005325 | 8119 |
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|    | NT2RP2005344 | F-NT2RP2005344 | 3056 | R-NT2RP2005344 | 8121 |
|    | NT2RP2005354 | F-NT2RP2005354 | 3057 | R-NT2RP2005354 | 8122 |
|    | NT2RP2005358 | F-NT2RP2005358 | 3058 |                |      |
| 10 | NT2RP2005360 | F-NT2RP2005360 | 3059 | R-NT2RP2005360 | 8123 |
|    | NT2RP2005393 | F-NT2RP2005393 | 3060 | R-NT2RP2005393 | 8124 |
|    | NT2RP2005407 | F-NT2RP2005407 | 3061 | R-NT2RP2005407 | 8125 |
|    | NT2RP2005436 | F-NT2RP2005436 | 3062 | R-NT2RP2005436 | 8126 |
| 15 | NT2RP2005441 | F-NT2RP2005441 | 3063 | R-NT2RP2005441 | 8127 |
|    | NT2RP2005453 | F-NT2RP2005453 | 3064 | R-NT2RP2005453 | 8128 |
|    | NT2RP2005457 | F-NT2RP2005457 | 3065 | R-NT2RP2005457 | 8129 |
|    | NT2RP2005464 | F-NT2RP2005464 | 3066 | R-NT2RP2005464 | 8130 |
| 20 | NT2RP2005465 | F-NT2RP2005465 | 3067 | R-NT2RP2005465 | 8131 |
|    | NT2RP2005472 | F-NT2RP2005472 | 3068 | R-NT2RP2005472 | 8132 |
|    | NT2RP2005476 | F-NT2RP2005476 | 3069 | R-NT2RP2005476 | 8133 |
|    | NT2RP2005490 | F-NT2RP2005490 | 3070 | R-NT2RP2005490 | 8134 |
|    | NT2RP2005491 | F-NT2RP2005491 | 3071 | R-NT2RP2005491 | 8135 |
| 25 | NT2RP2005495 | F-NT2RP2005495 | 3072 | R-NT2RP2005495 | 8136 |
|    | NT2RP2005496 | F-NT2RP2005496 | 3073 | R-NT2RP2005496 | 8137 |
|    | NT2RP2005498 | F-NT2RP2005498 | 3074 | R-NT2RP2005498 | 8138 |
|    | NT2RP2005501 | F-NT2RP2005501 | 3075 | R-NT2RP2005501 | 8139 |
| 30 | NT2RP2005509 | F-NT2RP2005509 | 3076 | R-NT2RP2005509 | 8140 |
|    | NT2RP2005520 | F-NT2RP2005520 | 3077 | R-NT2RP2005520 | 8141 |
|    | NT2RP2005525 | F-NT2RP2005525 | 3078 | R-NT2RP2005525 | 8142 |
|    | NT2RP2005531 | F-NT2RP2005531 | 3079 | R-NT2RP2005531 | 8143 |
| 35 | NT2RP2005539 | F-NT2RP2005539 | 3080 | R-NT2RP2005539 | 8144 |
|    | NT2RP2005540 | F-NT2RP2005540 | 3081 | R-NT2RP2005540 | 8145 |
|    | NT2RP2005549 | F-NT2RP2005549 | 3082 | R-NT2RP2005549 | 8146 |
|    | NT2RP2005555 | F-NT2RP2005555 | 3083 | R-NT2RP2005555 | 8147 |
| 40 | NT2RP2005557 | F-NT2RP2005557 | 3084 | R-NT2RP2005557 | 8148 |
|    | NT2RP2005581 | F-NT2RP2005581 | 3085 | R-NT2RP2005581 | 8149 |
|    | NT2RP2005600 | F-NT2RP2005600 | 3086 | R-NT2RP2005600 | 8150 |
|    | NT2RP2005605 | F-NT2RP2005605 | 3087 | R-NT2RP2005605 | 8151 |
| 45 | NT2RP2005620 | F-NT2RP2005620 | 3088 | R-NT2RP2005620 | 8152 |
|    | NT2RP2005622 | F-NT2RP2005622 | 3089 | R-NT2RP2005622 | 8153 |
|    | NT2RP2005635 | F-NT2RP2005635 | 3090 |                |      |
|    | NT2RP2005637 | F-NT2RP2005637 | 3091 | R-NT2RP2005637 | 8154 |
|    | NT2RP2005640 | F-NT2RP2005640 | 3092 | R-NT2RP2005640 | 8155 |
| 50 | NT2RP2005645 | F-NT2RP2005645 | 3093 | R-NT2RP2005645 | 8156 |
|    | NT2RP2005651 | F-NT2RP2005651 | 3094 | R-NT2RP2005651 | 8157 |
|    | NT2RP2005654 | F-NT2RP2005654 | 3095 | R-NT2RP2005654 | 8158 |
|    | NT2RP2005669 | F-NT2RP2005669 | 3096 | R-NT2RP2005669 | 8159 |
| 55 | NT2RP2005675 | F-NT2RP2005675 | 3097 | R-NT2RP2005675 | 8160 |

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|    | NT2RP2005683 | F-NT2RP2005683 | 3098 | R-NT2RP2005683 | 8161 |
|    | NT2RP2005690 | F-NT2RP2005690 | 3099 | R-NT2RP2005690 | 8162 |
|    | NT2RP2005694 | F-NT2RP2005694 | 3100 | R-NT2RP2005694 | 8163 |
| 5  | NT2RP2005701 | F-NT2RP2005701 | 3101 | R-NT2RP2005701 | 8164 |
|    | NT2RP2005712 | F-NT2RP2005712 | 3102 | R-NT2RP2005712 | 8165 |
|    | NT2RP2005719 | F-NT2RP2005719 | 3103 | R-NT2RP2005719 | 8166 |
|    | NT2RP2005722 | F-NT2RP2005722 | 3104 | R-NT2RP2005722 | 8167 |
| 10 | NT2RP2005723 | F-NT2RP2005723 | 3105 | R-NT2RP2005723 | 8168 |
|    | NT2RP2005726 | F-NT2RP2005726 | 3106 | R-NT2RP2005726 | 8169 |
|    | NT2RP2005732 | F-NT2RP2005732 | 3107 |                |      |
|    | NT2RP2005741 | F-NT2RP2005741 | 3108 | R-NT2RP2005741 | 8170 |
| 15 | NT2RP2005748 | F-NT2RP2005748 | 3109 | R-NT2RP2005748 | 8171 |
|    | NT2RP2005752 | F-NT2RP2005752 | 3110 | R-NT2RP2005752 | 8172 |
|    | NT2RP2005753 | F-NT2RP2005753 | 3111 | R-NT2RP2005753 | 8173 |
|    | NT2RP2005763 | F-NT2RP2005763 | 3112 | R-NT2RP2005763 | 8174 |
| 20 | NT2RP2005767 | F-NT2RP2005767 | 3113 | R-NT2RP2005767 | 8175 |
|    | NT2RP2005773 | F-NT2RP2005773 | 3114 | R-NT2RP2005773 | 8176 |
|    | NT2RP2005775 | F-NT2RP2005775 | 3115 | R-NT2RP2005775 | 8177 |
|    | NT2RP2005781 | F-NT2RP2005781 | 3116 | R-NT2RP2005781 | 8178 |
|    | NT2RP2005784 | F-NT2RP2005784 | 3117 | R-NT2RP2005784 | 8179 |
| 25 | NT2RP2005804 | F-NT2RP2005804 | 3118 | R-NT2RP2005804 | 8180 |
|    | NT2RP2005812 | F-NT2RP2005812 | 3119 | R-NT2RP2005812 | 8181 |
|    | NT2RP2005815 | F-NT2RP2005815 | 3120 | R-NT2RP2005815 | 8182 |
|    | NT2RP2005835 | F-NT2RP2005835 | 3121 | R-NT2RP2005835 | 8183 |
| 30 | NT2RP2005841 | F-NT2RP2005841 | 3122 | R-NT2RP2005841 | 8184 |
|    | NT2RP2005853 | F-NT2RP2005853 | 3123 | R-NT2RP2005853 | 8185 |
|    | NT2RP2005857 | F-NT2RP2005857 | 3124 | R-NT2RP2005857 | 8186 |
|    | NT2RP2005859 | F-NT2RP2005859 | 3125 | R-NT2RP2005859 | 8187 |
| 35 | NT2RP2005868 | F-NT2RP2005868 | 3126 | R-NT2RP2005868 | 8188 |
|    | NT2RP2005886 | F-NT2RP2005886 | 3127 |                |      |
|    | NT2RP2005890 | F-NT2RP2005890 | 3128 | R-NT2RP2005890 | 8189 |
|    | NT2RP2005901 | F-NT2RP2005901 | 3129 | R-NT2RP2005901 | 8190 |
| 40 | NT2RP2005908 | F-NT2RP2005908 | 3130 | R-NT2RP2005908 | 8191 |
|    | NT2RP2005933 | F-NT2RP2005933 | 3131 | R-NT2RP2005933 | 8192 |
|    | NT2RP2005942 | F-NT2RP2005942 | 3132 | R-NT2RP2005942 | 8193 |
|    | NT2RP2005980 | F-NT2RP2005980 | 3133 | R-NT2RP2005980 | 8194 |
| 45 | NT2RP2006023 | F-NT2RP2006023 | 3134 | R-NT2RP2006023 | 8195 |
|    | NT2RP2006038 | F-NT2RP2006038 | 3135 | R-NT2RP2006038 | 8196 |
|    | NT2RP2006043 | F-NT2RP2006043 | 3136 | R-NT2RP2006043 | 8197 |
|    | NT2RP2006052 | F-NT2RP2006052 | 3137 | R-NT2RP2006052 | 8198 |
|    | NT2RP2006069 | F-NT2RP2006069 | 3138 | R-NT2RP2006069 | 8199 |
| 50 | NT2RP2006071 | F-NT2RP2006071 | 3139 | R-NT2RP2006071 | 8200 |
|    | NT2RP2006098 | F-NT2RP2006098 | 3140 | R-NT2RP2006098 | 8201 |
|    | NT2RP2006100 | F-NT2RP2006100 | 3141 | R-NT2RP2006100 | 8202 |
|    | NT2RP2006103 | F-NT2RP2006103 | 3142 | R-NT2RP2006103 | 8203 |
| 55 | NT2RP2006106 | F-NT2RP2006106 | 3143 |                |      |

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|    | NT2RP2006141 | F-NT2RP2006141 | 3144 | R-NT2RP2006141       | 8204 |
|    | NT2RP2006166 | F-NT2RP2006166 | 3145 | R-NT2RP2006166       | 8205 |
|    | NT2RP2006184 | F-NT2RP2006184 | 3146 | R-NT2RP2006184       | 8206 |
| 5  | NT2RP2006186 | F-NT2RP2006186 | 3147 | R-NT2RP2006186       | 8207 |
|    | NT2RP2006196 | F-NT2RP2006196 | 3148 | R-NT2RP2006196       | 8208 |
|    | NT2RP2006200 | F-NT2RP2006200 | 3149 | R-NT2RP2006200       | 8209 |
|    | NT2RP2006219 | F-NT2RP2006219 | 3150 | R-NT2RP2006219       | 8210 |
| 10 | NT2RP2006237 | F-NT2RP2006237 | 3151 | R-NT2RP2006237       | 8211 |
|    | NT2RP2006238 | F-NT2RP2006238 | 3152 | R-NT2RP2006238       | 8212 |
|    | NT2RP2006258 | F-NT2RP2006258 | 3153 | R-NT2RP2006258       | 8213 |
|    | NT2RP2006261 | F-NT2RP2006261 | 3154 | R-NT2RP2006261       | 8214 |
| 15 | NT2RP2006275 | F-NT2RP2006275 | 3155 |                      |      |
|    | NT2RP2006312 | F-NT2RP2006312 | 3156 | R-NT2RP2006312       | 8215 |
|    | NT2RP2006320 | F-NT2RP2006320 | 3157 | R-NT2RP2006320       | 8216 |
|    | NT2RP2006321 | F-NT2RP2006321 | 3158 | R-NT2RP2006321       | 8217 |
| 20 | NT2RP2006323 | F-NT2RP2006323 | 3159 | R-NT2RP2006323       | 8218 |
|    | NT2RP2006333 | F-NT2RP2006333 | 3160 | R-NT2RP2006333       | 8219 |
|    | NT2RP2006334 | F-NT2RP2006334 | 3161 | R-NT2RP2006334       | 8220 |
|    | NT2RP2006365 | F-NT2RP2006365 | 3162 | R-NT2RP2006365       | 8221 |
| 25 | NT2RP2006393 | F-NT2RP2006393 | 3163 | R-NT2RP2006393       | 8222 |
|    | NT2RP2006436 | F-NT2RP2006436 | 3164 | R-NT2RP2006436       | 8223 |
|    | NT2RP2006441 | F-NT2RP2006441 | 3165 | R-NT2RP2006441       | 8224 |
|    | NT2RP2006454 | F-NT2RP2006454 | 3166 | R-NT2RP2006454       | 8225 |
|    | NT2RP2006456 | F-NT2RP2006456 | 3167 | R-NT2RP2006456       | 8226 |
| 30 | NT2RP2006464 | F-NT2RP2006464 | 3168 | R-NT2RP2006464       | 8227 |
|    | NT2RP2006467 | F-NT2RP2006467 | 3169 | R-NT2RP2006467       | 8228 |
|    | NT2RP2006472 | F-NT2RP2006472 | 3170 | R-NT2RP2006472       | 8229 |
|    | NT2RP2006534 | F-NT2RP2006534 | 3171 | R-NT2RP2006534       | 8230 |
| 35 | NT2RP2006554 | F-NT2RP2006554 | 3172 | R-NT2RP2006554       | 8231 |
|    | NT2RP2006565 | F-NT2RP2006565 | 3173 | R-NT2RP2006565       | 8232 |
|    | NT2RP2006571 | F-NT2RP2006571 | 3174 | R-NT2RP2006571       | 8233 |
|    | NT2RP2006573 | F-NT2RP2006573 | 3175 | R-ntntntntntntntntnt | 8234 |
| 40 | NT2RP2006598 | F-NT2RP2006598 | 3176 | R-NT2RP2006598       | 8235 |
|    | NT2RP3000002 | F-NT2RP3000002 | 3177 | R-NT2RP3000002       | 8236 |
|    | NT2RP3000031 | F-NT2RP3000031 | 3178 | R-NT2RP3000031       | 8237 |
|    | NT2RP3000046 | F-NT2RP3000046 | 3179 | R-NT2RP3000046       | 8238 |
| 45 | NT2RP3000047 | F-NT2RP3000047 | 3180 | R-NT2RP3000047       | 8239 |
|    | NT2RP3000050 | F-NT2RP3000050 | 3181 | R-NT2RP3000050       | 8240 |
|    | NT2RP3000055 | F-NT2RP3000055 | 3182 | R-NT2RP3000055       | 8241 |
|    | NT2RP3000068 | F-NT2RP3000068 | 3183 |                      |      |
|    | NT2RP3000072 | F-NT2RP3000072 | 3184 | R-NT2RP3000072       | 8242 |
| 50 | NT2RP3000080 | F-NT2RP3000080 | 3185 | R-NT2RP3000080       | 8243 |
|    | NT2RP3000085 | F-NT2RP3000085 | 3186 | R-NT2RP3000085       | 8244 |
|    | NT2RP3000092 | F-NT2RP3000092 | 3187 |                      |      |
|    | NT2RP3000109 | F-NT2RP3000109 | 3188 | R-NT2RP3000109       | 8245 |
| 55 | NT2RP3000134 | F-NT2RP3000134 | 3189 | R-NT2RP3000134       | 8246 |

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|    | NT2RP3000142 | F-NT2RP3000142 | 3190 | R-NT2RP3000142 | 8247 |
|    | NT2RP3000149 | F-NT2RP3000149 | 3191 | R-NT2RP3000149 | 8248 |
| 5  | NT2RP3000186 | F-NT2RP3000186 | 3192 | R-NT2RP3000186 | 8249 |
|    | NT2RP3000197 | F-NT2RP3000197 | 3193 | R-NT2RP3000197 | 8250 |
|    | NT2RP3000207 | F-NT2RP3000207 | 3194 | R-NT2RP3000207 | 8251 |
|    | NT2RP3000220 | F-NT2RP3000220 | 3195 | R-NT2RP3000220 | 8252 |
|    | NT2RP3000233 | F-NT2RP3000233 | 3196 | R-NT2RP3000233 | 8253 |
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|    | NT2RP3000247 | F-NT2RP3000247 | 3198 | R-NT2RP3000247 | 8255 |
|    | NT2RP3000251 | F-NT2RP3000251 | 3199 | R-NT2RP3000251 | 8256 |
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|    | NT2RP3000267 | F-NT2RP3000267 | 3202 | R-NT2RP3000267 | 8259 |
|    | NT2RP3000299 | F-NT2RP3000299 | 3203 | R-NT2RP3000299 | 8260 |
|    | NT2RP3000312 | F-NT2RP3000312 | 3204 | R-NT2RP3000312 | 8261 |
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|    | NT2RP3000324 | F-NT2RP3000324 | 3206 | R-NT2RP3000324 | 8263 |
|    | NT2RP3000333 | F-NT2RP3000333 | 3207 | R-NT2RP3000333 | 8264 |
|    | NT2RP3000341 | F-NT2RP3000341 | 3208 | R-NT2RP3000341 | 8265 |
|    | NT2RP3000348 | F-NT2RP3000348 | 3209 | R-NT2RP3000348 | 8266 |
| 25 | NT2RP3000350 | F-NT2RP3000350 | 3210 | R-NT2RP3000350 | 8267 |
|    | NT2RP3000359 | F-NT2RP3000359 | 3211 | R-NT2RP3000359 | 8268 |
|    | NT2RP3000361 | F-NT2RP3000361 | 3212 | R-NT2RP3000361 | 8269 |
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| 30 | NT2RP3000393 | F-NT2RP3000393 | 3214 |                |      |
|    | NT2RP3000397 | F-NT2RP3000397 | 3215 | R-NT2RP3000397 | 8271 |
|    | NT2RP3000403 | F-NT2RP3000403 | 3216 | R-NT2RP3000403 | 8272 |
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| 35 | NT2RP3000433 | F-NT2RP3000433 | 3218 | R-NT2RP3000433 | 8274 |
|    | NT2RP3000439 | F-NT2RP3000439 | 3219 | R-NT2RP3000439 | 8275 |
|    | NT2RP3000441 | F-NT2RP3000441 | 3220 | R-NT2RP3000441 | 8276 |
|    | NT2RP3000449 | F-NT2RP3000449 | 3221 | R-NT2RP3000449 | 8277 |
| 40 | NT2RP3000451 | F-NT2RP3000451 | 3222 | R-NT2RP3000451 | 8278 |
|    | NT2RP3000456 | F-NT2RP3000456 | 3223 | R-NT2RP3000456 | 8279 |
|    | NT2RP3000484 | F-NT2RP3000484 | 3224 | R-NT2RP3000484 | 8280 |
|    | NT2RP3000487 | F-NT2RP3000487 | 3225 | R-NT2RP3000487 | 8281 |
|    | NT2RP3000512 | F-NT2RP3000512 | 3226 | R-NT2RP3000512 | 8282 |
| 45 | NT2RP3000526 | F-NT2RP3000526 | 3227 | R-NT2RP3000526 | 8283 |
|    | NT2RP3000527 | F-NT2RP3000527 | 3228 | R-NT2RP3000527 | 8284 |
|    | NT2RP3000531 | F-NT2RP3000531 | 3229 | R-NT2RP3000531 | 8285 |
|    | NT2RP3000542 | F-NT2RP3000542 | 3230 | R-NT2RP3000542 | 8286 |
| 50 | NT2RP3000561 | F-NT2RP3000561 | 3231 | R-NT2RP3000561 | 8287 |
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|    | NT2RP3000578 | F-NT2RP3000578 | 3233 | R-NT2RP3000578 | 8289 |
|    | NT2RP3000582 | F-NT2RP3000582 | 3234 | R-NT2RP3000582 | 8290 |
| 55 | NT2RP3000584 | F-NT2RP3000584 | 3235 | R-NT2RP3000584 | 8291 |

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|    | NT2RP3000590 | F-NT2RP3000590 | 3236 | R-NT2RP3000590  | 8292 |
|    | NT2RP3000592 | F-NT2RP3000592 | 3237 | R-NT2RP3000592  | 8293 |
|    | NT2RP3000596 | F-NT2RP3000596 | 3238 | R-nnnnnnnnnnnnn | 8294 |
| 5  | NT2RP3000599 | F-NT2RP3000599 | 3239 | R-NT2RP3000599  | 8295 |
|    | NT2RP3000603 | F-NT2RP3000603 | 3240 |                 |      |
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|    | NT2RP3000622 | F-NT2RP3000622 | 3242 | R-NT2RP3000622  | 8297 |
| 10 | NT2RP3000624 | F-NT2RP3000624 | 3243 | R-NT2RP3000624  | 8298 |
|    | NT2RP3000628 | F-NT2RP3000628 | 3244 | R-NT2RP3000628  | 8299 |
|    | NT2RP3000632 | F-NT2RP3000632 | 3245 | R-NT2RP3000632  | 8300 |
|    | NT2RP3000644 | F-NT2RP3000644 | 3246 | R-NT2RP3000644  | 8301 |
| 15 | NT2RP3000661 | F-NT2RP3000661 | 3247 | R-NT2RP3000661  | 8302 |
|    | NT2RP3000665 | F-NT2RP3000665 | 3248 | R-NT2RP3000665  | 8303 |
|    | NT2RP3000685 | F-NT2RP3000685 | 3249 | R-NT2RP3000685  | 8304 |
|    | NT2RP3000690 | F-NT2RP3000690 | 3250 | R-NT2RP3000690  | 8305 |
| 20 | NT2RP3000736 | F-NT2RP3000736 | 3251 | R-NT2RP3000736  | 8306 |
|    | NT2RP3000739 | F-NT2RP3000739 | 3252 |                 |      |
|    | NT2RP3000742 | F-NT2RP3000742 | 3253 | R-NT2RP3000742  | 8307 |
|    | NT2RP3000753 | F-NT2RP3000753 | 3254 | R-NT2RP3000753  | 8308 |
|    | NT2RP3000759 | F-NT2RP3000759 | 3255 | R-NT2RP3000759  | 8309 |
| 25 | NT2RP3000815 | F-NT2RP3000815 | 3256 | R-NT2RP3000815  | 8310 |
|    | NT2RP3000825 | F-NT2RP3000825 | 3257 | R-NT2RP3000825  | 8311 |
|    | NT2RP3000826 | F-NT2RP3000826 | 3258 | R-NT2RP3000826  | 8312 |
|    | NT2RP3000836 | F-NT2RP3000836 | 3259 | R-NT2RP3000836  | 8313 |
| 30 | NT2RP3000841 | F-NT2RP3000841 | 3260 | R-NT2RP3000841  | 8314 |
|    | NT2RP3000845 | F-NT2RP3000845 | 3261 | R-NT2RP3000845  | 8315 |
|    | NT2RP3000847 | F-NT2RP3000847 | 3262 | R-NT2RP3000847  | 8316 |
|    | NT2RP3000850 | F-NT2RP3000850 | 3263 | R-NT2RP3000850  | 8317 |
| 35 | NT2RP3000852 | F-NT2RP3000852 | 3264 | R-NT2RP3000852  | 8318 |
|    | NT2RP3000859 | F-NT2RP3000859 | 3265 | R-NT2RP3000859  | 8319 |
|    | NT2RP3000865 | F-NT2RP3000865 | 3266 | R-NT2RP3000865  | 8320 |
|    | NT2RP3000868 | F-NT2RP3000868 | 3267 | R-NT2RP3000868  | 8321 |
| 40 | NT2RP3000869 | F-NT2RP3000869 | 3268 | R-NT2RP3000869  | 8322 |
|    | NT2RP3000875 | F-NT2RP3000875 | 3269 | R-NT2RP3000875  | 8323 |
|    | NT2RP3000901 | F-NT2RP3000901 | 3270 | R-NT2RP3000901  | 8324 |
|    | NT2RP3000904 | F-NT2RP3000904 | 3271 | R-NT2RP3000904  | 8325 |
|    | NT2RP3000917 | F-NT2RP3000917 | 3272 | R-NT2RP3000917  | 8326 |
| 45 | NT2RP3000919 | F-NT2RP3000919 | 3273 | R-NT2RP3000919  | 8327 |
|    | NT2RP3000968 | F-NT2RP3000968 | 3274 | R-NT2RP3000968  | 8328 |
|    | NT2RP3000980 | F-NT2RP3000980 | 3275 | R-NT2RP3000980  | 8329 |
|    | NT2RP3000994 | F-NT2RP3000994 | 3276 | R-NT2RP3000994  | 8330 |
| 50 | NT2RP3001004 | F-NT2RP3001004 | 3277 | R-NT2RP3001004  | 8331 |
|    | NT2RP3001007 | F-NT2RP3001007 | 3278 | R-NT2RP3001007  | 8332 |
|    | NT2RP3001055 | F-NT2RP3001055 | 3279 | R-NT2RP3001055  | 8333 |
|    | NT2RP3001057 | F-NT2RP3001057 | 3280 | R-NT2RP3001057  | 8334 |
| 55 | NT2RP3001081 | F-NT2RP3001081 | 3281 | R-NT2RP3001081  | 8335 |

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|    | NT2RP3001084 | F-NT2RP3001084 | 3282 | R-NT2RP3001084           | 8336 |
|    | NT2RP3001096 | F-NT2RP3001096 | 3283 | R-NT2RP3001096           | 8337 |
|    | NT2RP3001107 | F-NT2RP3001107 | 3284 | R-NT2RP3001107           | 8338 |
| 5  | NT2RP3001109 | F-NT2RP3001109 | 3285 | R-ntntntntntntntntntntnt | 8339 |
|    | NT2RP3001111 | F-NT2RP3001111 | 3286 | R-NT2RP3001111           | 8340 |
|    | NT2RP3001113 | F-NT2RP3001113 | 3287 | R-NT2RP3001113           | 8341 |
|    | NT2RP3001115 | F-NT2RP3001115 | 3288 | R-NT2RP3001115           | 8342 |
| 10 | NT2RP3001116 | F-NT2RP3001116 | 3289 | R-NT2RP3001116           | 8343 |
|    | NT2RP3001119 | F-NT2RP3001119 | 3290 | R-NT2RP3001119           | 8344 |
|    | NT2RP3001120 | F-NT2RP3001120 | 3291 | R-NT2RP3001120           | 8345 |
|    | NT2RP3001126 | F-NT2RP3001126 | 3292 | R-NT2RP3001126           | 8346 |
| 15 | NT2RP3001133 | F-NT2RP3001133 | 3293 | R-NT2RP3001133           | 8347 |
|    | NT2RP3001140 | F-NT2RP3001140 | 3294 | R-NT2RP3001140           | 8348 |
|    | NT2RP3001147 | F-NT2RP3001147 | 3295 | R-NT2RP3001147           | 8349 |
|    | NT2RP3001150 | F-NT2RP3001150 | 3296 | R-NT2RP3001150           | 8350 |
| 20 | NT2RP3001155 | F-NT2RP3001155 | 3297 | R-NT2RP3001155           | 8351 |
|    | NT2RP3001176 | F-NT2RP3001176 | 3298 | R-NT2RP3001176           | 8352 |
|    | NT2RP3001214 | F-NT2RP3001214 | 3299 | R-NT2RP3001214           | 8353 |
|    | NT2RP3001216 | F-NT2RP3001216 | 3300 | R-NT2RP3001216           | 8354 |
|    | NT2RP3001221 | F-NT2RP3001221 | 3301 | R-NT2RP3001221           | 8355 |
| 25 | NT2RP3001232 | F-NT2RP3001232 | 3302 | R-NT2RP3001232           | 8356 |
|    | NT2RP3001236 | F-NT2RP3001236 | 3303 | R-NT2RP3001236           | 8357 |
|    | NT2RP3001239 | F-NT2RP3001239 | 3304 | R-NT2RP3001239           | 8358 |
|    | NT2RP3001245 | F-NT2RP3001245 | 3305 | R-NT2RP3001245           | 8359 |
| 30 | NT2RP3001253 | F-NT2RP3001253 | 3306 | R-NT2RP3001253           | 8360 |
|    | NT2RP3001260 | F-NT2RP3001260 | 3307 | R-NT2RP3001260           | 8361 |
|    | NT2RP3001268 | F-NT2RP3001268 | 3308 | R-NT2RP3001268           | 8362 |
|    | NT2RP3001272 | F-NT2RP3001272 | 3309 | R-NT2RP3001272           | 8363 |
| 35 | NT2RP3001274 | F-NT2RP3001274 | 3310 | R-NT2RP3001274           | 8364 |
|    | NT2RP3001281 | F-NT2RP3001281 | 3311 | R-NT2RP3001281           | 8365 |
|    | NT2RP3001297 | F-NT2RP3001297 | 3312 |                          |      |
|    | NT2RP3001307 | F-NT2RP3001307 | 3313 | R-NT2RP3001307           | 8366 |
| 40 | NT2RP3001318 | F-NT2RP3001318 | 3314 | R-NT2RP3001318           | 8367 |
|    | NT2RP3001325 | F-NT2RP3001325 | 3315 | R-NT2RP3001325           | 8368 |
|    | NT2RP3001338 | F-NT2RP3001338 | 3316 | R-NT2RP3001338           | 8369 |
|    | NT2RP3001339 | F-NT2RP3001339 | 3317 | R-NT2RP3001339           | 8370 |
|    | NT2RP3001340 | F-NT2RP3001340 | 3318 | R-NT2RP3001340           | 8371 |
| 45 | NT2RP3001355 | F-NT2RP3001355 | 3319 | R-NT2RP3001355           | 8372 |
|    | NT2RP3001356 | F-NT2RP3001356 | 3320 |                          |      |
|    | NT2RP3001374 | F-NT2RP3001374 | 3321 | R-NT2RP3001374           | 8373 |
|    | NT2RP3001383 | F-NT2RP3001383 | 3322 | R-NT2RP3001383           | 8374 |
| 50 | NT2RP3001384 | F-NT2RP3001384 | 3323 | R-NT2RP3001384           | 8375 |
|    | NT2RP3001392 | F-NT2RP3001392 | 3324 | R-NT2RP3001392           | 8376 |
|    | NT2RP3001396 | F-NT2RP3001396 | 3325 | R-NT2RP3001396           | 8377 |
|    | NT2RP3001398 | F-NT2RP3001398 | 3326 | R-NT2RP3001398           | 8378 |
| 55 | NT2RP3001399 | F-NT2RP3001399 | 3327 | R-NT2RP3001399           | 8379 |



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|    | NT2RP3001426 | F-NT2RP3001426 | 3330 | R-NT2RP3001426  | 8382 |
| 5  | NT2RP3001427 | F-NT2RP3001427 | 3331 | R-NT2RP3001427  | 8383 |
|    | NT2RP3001428 | F-NT2RP3001428 | 3332 | R-nnnnnnnnnnnnn | 8384 |
|    | NT2RP3001432 | F-NT2RP3001432 | 3333 | R-NT2RP3001432  | 8385 |
|    | NT2RP3001447 | F-NT2RP3001447 | 3334 | R-NT2RP3001447  | 8386 |
| 10 | NT2RP3001449 | F-NT2RP3001449 | 3335 | R-NT2RP3001449  | 8387 |
|    | NT2RP3001453 | F-NT2RP3001453 | 3336 | R-NT2RP3001453  | 8388 |
|    | NT2RP3001457 | F-NT2RP3001457 | 3337 | R-NT2RP3001457  | 8389 |
|    | NT2RP3001459 | F-NT2RP3001459 | 3338 | R-NT2RP3001459  | 8390 |
| 15 | NT2RP3001472 | F-NT2RP3001472 | 3339 | R-NT2RP3001472  | 8391 |
|    | NT2RP3001490 | F-NT2RP3001490 | 3340 | R-NT2RP3001490  | 8392 |
|    | NT2RP3001495 | F-NT2RP3001495 | 3341 | R-NT2RP3001495  | 8393 |
|    | NT2RP3001497 | F-NT2RP3001497 | 3342 | R-NT2RP3001497  | 8394 |
| 20 | NT2RP3001527 | F-NT2RP3001527 | 3343 | R-NT2RP3001527  | 8395 |
|    | NT2RP3001529 | F-NT2RP3001529 | 3344 | R-NT2RP3001529  | 8396 |
|    | NT2RP3001538 | F-NT2RP3001538 | 3345 | R-NT2RP3001538  | 8397 |
|    | NT2RP3001554 | F-NT2RP3001554 | 3346 | R-NT2RP3001554  | 8398 |
|    | NT2RP3001580 | F-NT2RP3001580 | 3347 | R-NT2RP3001580  | 8399 |
| 25 | NT2RP3001587 | F-NT2RP3001587 | 3348 | R-NT2RP3001587  | 8400 |
|    | NT2RP3001589 | F-NT2RP3001589 | 3349 | R-NT2RP3001589  | 8401 |
|    | NT2RP3001607 | F-NT2RP3001607 | 3350 | R-NT2RP3001607  | 8402 |
|    | NT2RP3001608 | F-NT2RP3001608 | 3351 | R-NT2RP3001608  | 8403 |
| 30 | NT2RP3001621 | F-NT2RP3001621 | 3352 | R-NT2RP3001621  | 8404 |
|    | NT2RP3001629 | F-NT2RP3001629 | 3353 | R-NT2RP3001629  | 8405 |
|    | NT2RP3001634 | F-NT2RP3001634 | 3354 | R-NT2RP3001634  | 8406 |
|    | NT2RP3001642 | F-NT2RP3001642 | 3355 | R-NT2RP3001642  | 8407 |
| 35 | NT2RP3001646 | F-NT2RP3001646 | 3356 | R-NT2RP3001646  | 8408 |
|    | NT2RP3001671 | F-NT2RP3001671 | 3357 | R-NT2RP3001671  | 8409 |
|    | NT2RP3001672 | F-NT2RP3001672 | 3358 | R-NT2RP3001672  | 8410 |
|    | NT2RP3001676 | F-NT2RP3001676 | 3359 | R-NT2RP3001676  | 8411 |
| 40 | NT2RP3001678 | F-NT2RP3001678 | 3360 | R-NT2RP3001678  | 8412 |
|    | NT2RP3001679 | F-NT2RP3001679 | 3361 | R-NT2RP3001679  | 8413 |
|    | NT2RP3001688 | F-NT2RP3001688 | 3362 | R-NT2RP3001688  | 8414 |
|    | NT2RP3001690 | F-NT2RP3001690 | 3363 | R-NT2RP3001690  | 8415 |
|    | NT2RP3001698 | F-NT2RP3001698 | 3364 |                 |      |
| 45 | NT2RP3001708 | F-NT2RP3001708 | 3365 | R-NT2RP3001708  | 8416 |
|    | NT2RP3001712 | F-NT2RP3001712 | 3366 | R-NT2RP3001712  | 8417 |
|    | NT2RP3001716 | F-NT2RP3001716 | 3367 | R-NT2RP3001716  | 8418 |
|    | NT2RP3001724 | F-NT2RP3001724 | 3368 | R-NT2RP3001724  | 8419 |
| 50 | NT2RP3001727 | F-NT2RP3001727 | 3369 |                 |      |
|    | NT2RP3001730 | F-NT2RP3001730 | 3370 | R-NT2RP3001730  | 8420 |
|    | NT2RP3001739 | F-NT2RP3001739 | 3371 | R-NT2RP3001739  | 8421 |
|    | NT2RP3001752 | F-NT2RP3001752 | 3372 | R-NT2RP3001752  | 8422 |
| 55 | NT2RP3001753 | F-NT2RP3001753 | 3373 | R-NT2RP3001753  | 8423 |

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|    | NT2RP3001777 | F-NT2RP3001777 | 3375 | R-NT2RP3001777         | 8425 |
| 5  | NT2RP3001782 | F-NT2RP3001782 | 3376 | R-NT2RP3001782         | 8426 |
|    | NT2RP3001792 | F-NT2RP3001792 | 3377 | R-NT2RP3001792         | 8427 |
|    | NT2RP3001799 | F-NT2RP3001799 | 3378 | R-NT2RP3001799         | 8428 |
|    | NT2RP3001819 | F-NT2RP3001819 | 3379 | R-NT2RP3001819         | 8429 |
|    | NT2RP3001844 | F-NT2RP3001844 | 3380 | R-NT2RP3001844         | 8430 |
| 10 | NT2RP3001854 | F-NT2RP3001854 | 3381 | R-NT2RP3001854         | 8431 |
|    | NT2RP3001855 | F-NT2RP3001855 | 3382 | R-NT2RP3001855         | 8432 |
|    | NT2RP3001857 | F-NT2RP3001857 | 3383 |                        |      |
|    | NT2RP3001896 | F-NT2RP3001896 | 3384 | R-NT2RP3001896         | 8433 |
| 15 | NT2RP3001898 | F-NT2RP3001898 | 3385 | R-NT2RP3001898         | 8434 |
|    | NT2RP3001915 | F-NT2RP3001915 | 3386 | R-NT2RP3001915         | 8435 |
|    | NT2RP3001926 | F-NT2RP3001926 | 3387 | R-NT2RP3001926         | 8436 |
|    | NT2RP3001929 | F-NT2RP3001929 | 3388 | R-NT2RP3001929         | 8437 |
| 20 | NT2RP3001931 | F-NT2RP3001931 | 3389 | R-NT2RP3001931         | 8438 |
|    | NT2RP3001938 | F-NT2RP3001938 | 3390 | R-NT2RP3001938         | 8439 |
|    | NT2RP3001943 | F-NT2RP3001943 | 3391 | R-NT2RP3001943         | 8440 |
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| 25 | NT2RP3001989 | F-NT2RP3001989 | 3394 | R-NT2RP3001989         | 8443 |
|    | NT2RP3002002 | F-NT2RP3002002 | 3395 | R-NT2RP3002002         | 8444 |
|    | NT2RP3002004 | F-NT2RP3002004 | 3396 | R-NT2RP3002004         | 8445 |
|    | NT2RP3002007 | F-NT2RP3002007 | 3397 | R-NT2RP3002007         | 8446 |
| 30 | NT2RP3002014 | F-NT2RP3002014 | 3398 | R-NT2RP3002014         | 8447 |
|    | NT2RP3002033 | F-NT2RP3002033 | 3399 | R-NT2RP3002033         | 8448 |
|    | NT2RP3002045 | F-NT2RP3002045 | 3400 | R-NT2RP3002045         | 8449 |
|    | NT2RP3002054 | F-NT2RP3002054 | 3401 | R-NT2RP3002054         | 8450 |
| 35 | NT2RP3002056 | F-NT2RP3002056 | 3402 | R-NT2RP3002056         | 8451 |
|    | NT2RP3002057 | F-NT2RP3002057 | 3403 | R-NT2RP3002057         | 8452 |
|    | NT2RP3002062 | F-NT2RP3002062 | 3404 | R-NT2RP3002062         | 8453 |
|    | NT2RP3002063 | F-NT2RP3002063 | 3405 | R-ntntntntntntntntntnt | 8454 |
| 40 | NT2RP3002081 | F-NT2RP3002081 | 3406 | R-NT2RP3002081         | 8455 |
|    | NT2RP3002097 | F-NT2RP3002097 | 3407 | R-NT2RP3002097         | 8456 |
|    | NT2RP3002102 | F-NT2RP3002102 | 3408 | R-NT2RP3002102         | 8457 |
|    | NT2RP3002108 | F-NT2RP3002108 | 3409 | R-NT2RP3002108         | 8458 |
|    | NT2RP3002142 | F-NT2RP3002142 | 3410 |                        |      |
| 45 | NT2RP3002146 | F-NT2RP3002146 | 3411 | R-NT2RP3002146         | 8459 |
|    | NT2RP3002147 | F-NT2RP3002147 | 3412 | R-NT2RP3002147         | 8460 |
|    | NT2RP3002151 | F-NT2RP3002151 | 3413 | R-NT2RP3002151         | 8461 |
|    | NT2RP3002163 | F-NT2RP3002163 | 3414 | R-NT2RP3002163         | 8462 |
| 50 | NT2RP3002165 | F-NT2RP3002165 | 3415 | R-NT2RP3002165         | 8463 |
|    | NT2RP3002166 | F-NT2RP3002166 | 3416 | R-NT2RP3002166         | 8464 |
|    | NT2RP3002173 | F-NT2RP3002173 | 3417 | R-NT2RP3002173         | 8465 |
|    | NT2RP3002181 | F-NT2RP3002181 | 3418 | R-NT2RP3002181         | 8466 |
| 55 | NT2RP3002244 | F-NT2RP3002244 | 3419 | R-NT2RP3002244         | 8467 |

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|    | NT2RP3002255 | F-NT2RP3002255 | 3421 | R-NT2RP3002255 | 8469 |
|    | NT2RP3002273 | F-NT2RP3002273 | 3422 | R-NT2RP3002273 | 8470 |
| 5  | NT2RP3002276 | F-NT2RP3002276 | 3423 | R-NT2RP3002276 | 8471 |
|    | NT2RP3002303 | F-NT2RP3002303 | 3424 | R-NT2RP3002303 | 8472 |
|    | NT2RP3002304 | F-NT2RP3002304 | 3425 | R-NT2RP3002304 | 8473 |
|    | NT2RP3002330 | F-NT2RP3002330 | 3426 | R-NT2RP3002330 | 8474 |
| 10 | NT2RP3002343 | F-NT2RP3002343 | 3427 | R-NT2RP3002343 | 8475 |
|    | NT2RP3002351 | F-NT2RP3002351 | 3428 | R-NT2RP3002351 | 8476 |
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|    | NT2RP3002377 | F-NT2RP3002377 | 3430 |                |      |
| 15 | NT2RP3002399 | F-NT2RP3002399 | 3431 |                |      |
|    | NT2RP3002402 | F-NT2RP3002402 | 3432 |                |      |
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|    | NT2RP3002484 | F-NT2RP3002484 | 3434 | R-NT2RP3002484 | 8479 |
| 20 | NT2RP3002501 | F-NT2RP3002501 | 3435 | R-NT2RP3002501 | 8480 |
|    | NT2RP3002512 | F-NT2RP3002512 | 3436 | R-NT2RP3002512 | 8481 |
|    | NT2RP3002529 | F-NT2RP3002529 | 3437 | R-NT2RP3002529 | 8482 |
|    | NT2RP3002545 | F-NT2RP3002545 | 3438 | R-NT2RP3002545 | 8483 |
|    | NT2RP3002549 | F-NT2RP3002549 | 3439 | R-NT2RP3002549 | 8484 |
| 25 | NT2RP3002566 | F-NT2RP3002566 | 3440 | R-NT2RP3002566 | 8485 |
|    | NT2RP3002587 | F-NT2RP3002587 | 3441 | R-NT2RP3002587 | 8486 |
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|    | NT2RP3002602 | F-NT2RP3002602 | 3443 | R-NT2RP3002602 | 8488 |
| 30 | NT2RP3002603 | F-NT2RP3002603 | 3444 | R-NT2RP3002603 | 8489 |
|    | NT2RP3002628 | F-NT2RP3002628 | 3445 |                |      |
|    | NT2RP3002631 | F-NT2RP3002631 | 3446 | R-NT2RP3002631 | 8490 |
|    | NT2RP3002650 | F-NT2RP3002650 | 3447 |                |      |
| 35 | NT2RP3002659 | F-NT2RP3002659 | 3448 | R-NT2RP3002659 | 8491 |
|    | NT2RP3002660 | F-NT2RP3002660 | 3449 | R-NT2RP3002660 | 8492 |
|    | NT2RP3002663 | F-NT2RP3002663 | 3450 | R-NT2RP3002663 | 8493 |
|    | NT2RP3002671 | F-NT2RP3002671 | 3451 | R-NT2RP3002671 | 8494 |
|    | NT2RP3002682 | F-NT2RP3002682 | 3452 | R-NT2RP3002682 | 8495 |
| 40 | NT2RP3002687 | F-NT2RP3002687 | 3453 | R-NT2RP3002687 | 8496 |
|    | NT2RP3002688 | F-NT2RP3002688 | 3454 | R-NT2RP3002688 | 8497 |
|    | NT2RP3002701 | F-NT2RP3002701 | 3455 | R-NT2RP3002701 | 8498 |
|    | NT2RP3002713 | F-NT2RP3002713 | 3456 | R-NT2RP3002713 | 8499 |
| 45 | NT2RP3002763 | F-NT2RP3002763 | 3457 | R-NT2RP3002763 | 8500 |
|    | NT2RP3002770 | F-NT2RP3002770 | 3458 | R-NT2RP3002770 | 8501 |
|    | NT2RP3002785 | F-NT2RP3002785 | 3459 | R-NT2RP3002785 | 8502 |
|    | NT2RP3002799 | F-NT2RP3002799 | 3460 | R-NT2RP3002799 | 8503 |
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|    | NT2RP3002818 | F-NT2RP3002818 | 3462 | R-NT2RP3002818 | 8505 |
|    | NT2RP3002861 | F-NT2RP3002861 | 3463 | R-NT2RP3002861 | 8506 |
|    | NT2RP3002869 | F-NT2RP3002869 | 3464 | R-NT2RP3002869 | 8507 |
| 55 | NT2RP3002876 | F-NT2RP3002876 | 3465 | R-NT2RP3002876 | 8508 |

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|    | NT2RP3002948 | F-NT2RP3002948 | 3469 | R-NT2RP3002948 | 8512 |
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|    | NT2RP3003138 | F-NT2RP3003138 | 3487 | R-NT2RP3003138 | 8529 |
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|    | NT2RP3003157 | F-NT2RP3003157 | 3491 | R-NT2RP3003157 | 8532 |
|    | NT2RP3003185 | F-NT2RP3003185 | 3492 | R-NT2RP3003185 | 8533 |
|    | NT2RP3003193 | F-NT2RP3003193 | 3493 | R-NT2RP3003193 | 8534 |
| 35 | NT2RP3003197 | F-NT2RP3003197 | 3494 | R-NT2RP3003197 | 8535 |
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| 40 | NT2RP3003230 | F-NT2RP3003230 | 3499 | R-NT2RP3003230 | 8539 |
|    | NT2RP3003242 | F-NT2RP3003242 | 3500 | R-NT2RP3003242 | 8540 |
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|    | NT2RP3003282 | F-NT2RP3003282 | 3504 | R-NT2RP3003282 | 8544 |
|    | NT2RP3003290 | F-NT2RP3003290 | 3505 | R-NT2RP3003290 | 8545 |
|    | NT2RP3003301 | F-NT2RP3003301 | 3506 | R-NT2RP3003301 | 8546 |
| 50 | NT2RP3003302 | F-NT2RP3003302 | 3507 | R-NT2RP3003302 | 8547 |
|    | NT2RP3003311 | F-NT2RP3003311 | 3508 | R-NT2RP3003311 | 8548 |
|    | NT2RP3003313 | F-NT2RP3003313 | 3509 | R-NT2RP3003313 | 8549 |
|    | NT2RP3003327 | F-NT2RP3003327 | 3510 | R-NT2RP3003327 | 8550 |
| 55 | NT2RP3003330 | F-NT2RP3003330 | 3511 | R-NT2RP3003330 | 8551 |

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| 15 | NT2RP3003464 | F-NT2RP3003464 | 3523 | R-NT2RP3003464 | 8563 |
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| 30 | NT2RP3003656 | F-NT2RP3003656 | 3536 | R-NT2RP3003656 | 8575 |
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|    | NT2RP3003672 | F-NT2RP3003672 | 3539 | R-NT2RP3003672 | 8578 |
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|    | NT2RP3003716 | F-NT2RP3003716 | 3543 | R-NT2RP3003716 | 8581 |
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| 40 | NT2RP3003746 | F-NT2RP3003746 | 3545 | R-NT2RP3003746 | 8583 |
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|    | NT2RP3003825 | F-NT2RP3003825 | 3552 | R-NT2RP3003825 | 8590 |
| 50 | NT2RP3003828 | F-NT2RP3003828 | 3553 | R-NT2RP3003828 | 8591 |
|    | NT2RP3003831 | F-NT2RP3003831 | 3554 | R-NT2RP3003831 | 8592 |
|    | NT2RP3003833 | F-NT2RP3003833 | 3555 | R-NT2RP3003833 | 8593 |
|    | NT2RP3003842 | F-NT2RP3003842 | 3556 | R-NT2RP3003842 | 8594 |
| 55 | NT2RP3003846 | F-NT2RP3003846 | 3557 | R-NT2RP3003846 | 8595 |

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| 5  | NT2RP3003918 | F-NT2RP3003918 | 3561 | R-NT2RP3003918 | 8599 |
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|    | NT2RP3004095 | F-NT2RP3004095 | 3572 | R-NT2RP3004095 | 8610 |
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|    | NT2RP3004125 | F-NT2RP3004125 | 3574 | R-NT2RP3004125 | 8612 |
|    | NT2RP3004145 | F-NT2RP3004145 | 3575 | R-NT2RP3004145 | 8613 |
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| 25 | NT2RP3004189 | F-NT2RP3004189 | 3578 |                |      |
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|    | NT2RP3004242 | F-NT2RP3004242 | 3583 | R-NT2RP3004242 | 8620 |
|    | NT2RP3004246 | F-NT2RP3004246 | 3584 | R-NT2RP3004246 | 8621 |
|    | NT2RP3004253 | F-NT2RP3004253 | 3585 | R-NT2RP3004253 | 8622 |
| 35 | NT2RP3004258 | F-NT2RP3004258 | 3586 | R-NT2RP3004258 | 8623 |
|    | NT2RP3004262 | F-NT2RP3004262 | 3587 | R-NT2RP3004262 | 8624 |
|    | NT2RP3004282 | F-NT2RP3004282 | 3588 |                |      |
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| 40 | NT2RP3004341 | F-NT2RP3004341 | 3591 | R-NT2RP3004341 | 8626 |
|    | NT2RP3004348 | F-NT2RP3004348 | 3592 | R-NT2RP3004348 | 8627 |
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|    | NT2RP3004378 | F-NT2RP3004378 | 3594 | R-NT2RP3004378 | 8629 |
| 45 | NT2RP3004399 | F-NT2RP3004399 | 3595 | R-NT2RP3004399 | 8630 |
|    | NT2RP3004424 | F-NT2RP3004424 | 3596 | R-NT2RP3004424 | 8631 |
|    | NT2RP3004428 | F-NT2RP3004428 | 3597 | R-NT2RP3004428 | 8632 |
|    | NT2RP3004451 | F-NT2RP3004451 | 3598 | R-NT2RP3004451 | 8633 |
| 50 | NT2RP3004454 | F-NT2RP3004454 | 3599 | R-NT2RP3004454 | 8634 |
|    | NT2RP3004466 | F-NT2RP3004466 | 3600 | R-NT2RP3004466 | 8635 |
|    | NT2RP3004470 | F-NT2RP3004470 | 3601 | R-NT2RP3004470 | 8636 |
|    | NT2RP3004472 | F-NT2RP3004472 | 3602 | R-NT2RP3004472 | 8637 |
| 55 | NT2RP3004475 | F-NT2RP3004475 | 3603 | R-NT2RP3004475 | 8638 |

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|    | NT2RP3004490 | F-NT2RP3004490 | 3605 | R-NT2RP3004490  | 8640 |
|    | NT2RP3004498 | F-NT2RP3004498 | 3606 | R-NT2RP3004498  | 8641 |
| 5  | NT2RP3004503 | F-NT2RP3004503 | 3607 | R-NT2RP3004503  | 8642 |
|    | NT2RP3004504 | F-NT2RP3004504 | 3608 | R-NT2RP3004504  | 8643 |
|    | NT2RP3004507 | F-NT2RP3004507 | 3609 | R-NT2RP3004507  | 8644 |
|    | NT2RP3004527 | F-NT2RP3004527 | 3610 | R-NT2RP3004527  | 8645 |
| 10 | NT2RP3004534 | F-NT2RP3004534 | 3611 | R-nnnnnnnnnnnnn | 8646 |
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| 15 | NT2RP3004569 | F-NT2RP3004569 | 3615 | R-NT2RP3004569  | 8649 |
|    | NT2RP3004572 | F-NT2RP3004572 | 3616 | R-NT2RP3004572  | 8650 |
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|    | NT2RP3004594 | F-NT2RP3004594 | 3618 | R-NT2RP3004594  | 8652 |
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|    | NT2RP3004618 | F-NT2RP3004618 | 3620 | R-NT2RP3004618  | 8654 |
|    | NT2RP3004669 | F-NT2RP3004669 | 3621 |                 |      |
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|    | NT2RP4000035 | F-NT2RP4000035 | 3625 | R-NT2RP4000035  | 8658 |
|    | NT2RP4000049 | F-NT2RP4000049 | 3626 | R-NT2RP4000049  | 8659 |
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| 30 | NT2RP4000078 | F-NT2RP4000078 | 3628 | R-NT2RP4000078  | 8661 |
|    | NT2RP4000102 | F-NT2RP4000102 | 3629 | R-NT2RP4000102  | 8662 |
|    | NT2RP4000109 | F-NT2RP4000109 | 3630 | R-NT2RP4000109  | 8663 |
|    | NT2RP4000111 | F-NT2RP4000111 | 3631 |                 |      |
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|    | NT2RP4000147 | F-NT2RP4000147 | 3633 | R-NT2RP4000147  | 8665 |
|    | NT2RP4000150 | F-NT2RP4000150 | 3634 | R-NT2RP4000150  | 8666 |
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|    | NT2RP4000167 | F-NT2RP4000167 | 3637 | R-NT2RP4000167  | 8669 |
|    | NT2RP4000185 | F-NT2RP4000185 | 3638 | R-NT2RP4000185  | 8670 |
|    | NT2RP4000210 | F-NT2RP4000210 | 3639 | R-NT2RP4000210  | 8671 |
|    | NT2RP4000212 | F-NT2RP4000212 | 3640 | R-NT2RP4000212  | 8672 |
| 45 | NT2RP4000214 | F-NT2RP4000214 | 3641 | R-NT2RP4000214  | 8673 |
|    | NT2RP4000218 | F-NT2RP4000218 | 3642 | R-NT2RP4000218  | 8674 |
|    | NT2RP4000243 | F-NT2RP4000243 | 3643 | R-NT2RP4000243  | 8675 |
|    | NT2RP4000246 | F-NT2RP4000246 | 3644 | R-NT2RP4000246  | 8676 |
| 50 | NT2RP4000259 | F-NT2RP4000259 | 3645 | R-NT2RP4000259  | 8677 |
|    | NT2RP4000263 | F-NT2RP4000263 | 3646 | R-NT2RP4000263  | 8678 |
|    | NT2RP4000290 | F-NT2RP4000290 | 3647 | R-nnnnnnnnnnnnn | 8679 |
|    | NT2RP4000312 | F-NT2RP4000312 | 3648 | R-NT2RP4000312  | 8680 |
| 55 | NT2RP4000321 | F-NT2RP4000321 | 3649 | R-NT2RP4000321  | 8681 |

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|    | NT2RP4000323 | F-NT2RP4000323 | 3650 | R-NT2RP4000323           | 8682 |
|    | NT2RP4000355 | F-NT2RP4000355 | 3651 | R-NT2RP4000355           | 8683 |
|    | NT2RP4000360 | F-NT2RP4000360 | 3652 | R-NT2RP4000360           | 8684 |
| 5  | NT2RP4000367 | F-NT2RP4000367 | 3653 | R-NT2RP4000367           | 8685 |
|    | NT2RP4000370 | F-NT2RP4000370 | 3654 | R-NT2RP4000370           | 8686 |
|    | NT2RP4000376 | F-NT2RP4000376 | 3655 | R-NT2RP4000376           | 8687 |
|    | NT2RP4000381 | F-NT2RP4000381 | 3656 | R-NT2RP4000381           | 8688 |
| 10 | NT2RP4000398 | F-NT2RP4000398 | 3657 |                          |      |
|    | NT2RP4000415 | F-NT2RP4000415 | 3658 | R-NT2RP4000415           | 8689 |
|    | NT2RP4000417 | F-NT2RP4000417 | 3659 | R-NT2RP4000417           | 8690 |
|    | NT2RP4000424 | F-NT2RP4000424 | 3660 | R-NT2RP4000424           | 8691 |
| 15 | NT2RP4000448 | F-NT2RP4000448 | 3661 | R-NT2RP4000448           | 8692 |
|    | NT2RP4000449 | F-NT2RP4000449 | 3662 | R-NT2RP4000449           | 8693 |
|    | NT2RP4000455 | F-NT2RP4000455 | 3663 | R-NT2RP4000455           | 8694 |
|    | NT2RP4000457 | F-NT2RP4000457 | 3664 | R-ntntntntntntntntntntnt | 8695 |
| 20 | NT2RP4000480 | F-NT2RP4000480 | 3665 | R-NT2RP4000480           | 8696 |
|    | NT2RP4000481 | F-NT2RP4000481 | 3666 | R-ntntntntntntntntntntnt | 8697 |
|    | NT2RP4000498 | F-NT2RP4000498 | 3667 |                          |      |
|    | NT2RP4000500 | F-NT2RP4000500 | 3668 | R-NT2RP4000500           | 8698 |
|    | NT2RP4000515 | F-NT2RP4000515 | 3669 | R-NT2RP4000515           | 8699 |
| 25 | NT2RP4000517 | F-NT2RP4000517 | 3670 | R-NT2RP4000517           | 8700 |
|    | NT2RP4000518 | F-NT2RP4000518 | 3671 | R-NT2RP4000518           | 8701 |
|    | NT2RP4000519 | F-NT2RP4000519 | 3672 | R-NT2RP4000519           | 8702 |
|    | NT2RP4000524 | F-NT2RP4000524 | 3673 | R-NT2RP4000524           | 8703 |
| 30 | NT2RP4000528 | F-NT2RP4000528 | 3674 | R-NT2RP4000528           | 8704 |
|    | NT2RP4000541 | F-NT2RP4000541 | 3675 | R-NT2RP4000541           | 8705 |
|    | NT2RP4000556 | F-NT2RP4000556 | 3676 | R-NT2RP4000556           | 8706 |
|    | NT2RP4000560 | F-NT2RP4000560 | 3677 |                          |      |
| 35 | NT2RP4000588 | F-NT2RP4000588 | 3678 | R-NT2RP4000588           | 8707 |
|    | NT2RP4000614 | F-NT2RP4000614 | 3679 | R-NT2RP4000614           | 8708 |
|    | NT2RP4000638 | F-NT2RP4000638 | 3680 | R-NT2RP4000638           | 8709 |
|    | NT2RP4000648 | F-NT2RP4000648 | 3681 | R-NT2RP4000648           | 8710 |
| 40 | NT2RP4000657 | F-NT2RP4000657 | 3682 | R-NT2RP4000657           | 8711 |
|    | NT2RP4000704 | F-NT2RP4000704 | 3683 | R-NT2RP4000704           | 8712 |
|    | NT2RP4000713 | F-NT2RP4000713 | 3684 |                          |      |
|    | NT2RP4000724 | F-NT2RP4000724 | 3685 | R-NT2RP4000724           | 8713 |
|    | NT2RP4000728 | F-NT2RP4000728 | 3686 | R-NT2RP4000728           | 8714 |
| 45 | NT2RP4000737 | F-NT2RP4000737 | 3687 |                          |      |
|    | NT2RP4000739 | F-NT2RP4000739 | 3688 | R-NT2RP4000739           | 8715 |
|    | NT2RP4000781 | F-NT2RP4000781 | 3689 | R-NT2RP4000781           | 8716 |
|    | NT2RP4000787 | F-NT2RP4000787 | 3690 |                          |      |
| 50 | NT2RP4000817 | F-NT2RP4000817 | 3691 | R-NT2RP4000817           | 8717 |
|    | NT2RP4000833 | F-NT2RP4000833 | 3692 | R-NT2RP4000833           | 8718 |
|    | NT2RP4000837 | F-NT2RP4000837 | 3693 | R-NT2RP4000837           | 8719 |
|    | NT2RP4000839 | F-NT2RP4000839 | 3694 |                          |      |
| 55 | NT2RP4000855 | F-NT2RP4000855 | 3695 | R-NT2RP4000855           | 8720 |



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|    | NT2RP4000865 | F-NT2RP4000865 | 3696 | R-NT2RP4000865  | 8721 |
|    | NT2RP4000878 | F-NT2RP4000878 | 3697 | R-NT2RP4000878  | 8722 |
|    | NT2RP4000879 | F-NT2RP4000879 | 3698 | R-NT2RP4000879  | 8723 |
| 5  | NT2RP4000907 | F-NT2RP4000907 | 3699 | R-nnnnnnnnnnnnn | 8724 |
|    | NT2RP4000915 | F-NT2RP4000915 | 3700 | R-nnnnnnnnnnnnn | 8725 |
|    | NT2RP4000918 | F-NT2RP4000918 | 3701 |                 |      |
|    | NT2RP4000925 | F-NT2RP4000925 | 3702 | R-NT2RP4000925  | 8726 |
| 10 | NT2RP4000927 | F-NT2RP4000927 | 3703 | R-nnnnnnnnnnnnn | 8727 |
|    | NT2RP4000928 | F-NT2RP4000928 | 3704 | R-NT2RP4000928  | 8728 |
|    | NT2RP4000929 | F-NT2RP4000929 | 3705 | R-NT2RP4000929  | 8729 |
|    | NT2RP4000955 | F-NT2RP4000955 | 3706 | R-NT2RP4000955  | 8730 |
| 15 | NT2RP4000973 | F-NT2RP4000973 | 3707 | R-NT2RP4000973  | 8731 |
|    | NT2RP4000975 | F-NT2RP4000975 | 3708 | R-NT2RP4000975  | 8732 |
|    | NT2RP4000979 | F-NT2RP4000979 | 3709 | R-NT2RP4000979  | 8733 |
|    | NT2RP4000984 | F-NT2RP4000984 | 3710 | R-NT2RP4000984  | 8734 |
| 20 | NT2RP4000989 | F-NT2RP4000989 | 3711 | R-NT2RP4000989  | 8735 |
|    | NT2RP4000996 | F-NT2RP4000996 | 3712 | R-NT2RP4000996  | 8736 |
|    | NT2RP4000997 | F-NT2RP4000997 | 3713 | R-NT2RP4000997  | 8737 |
|    | NT2RP4001004 | F-NT2RP4001004 | 3714 | R-NT2RP4001004  | 8738 |
| 25 | NT2RP4001006 | F-NT2RP4001006 | 3715 | R-NT2RP4001006  | 8739 |
|    | NT2RP4001010 | F-NT2RP4001010 | 3716 | R-NT2RP4001010  | 8740 |
|    | NT2RP4001029 | F-NT2RP4001029 | 3717 | R-NT2RP4001029  | 8741 |
|    | NT2RP4001041 | F-NT2RP4001041 | 3718 | R-NT2RP4001041  | 8742 |
|    | NT2RP4001057 | F-NT2RP4001057 | 3719 | R-NT2RP4001057  | 8743 |
| 30 | NT2RP4001064 | F-NT2RP4001064 | 3720 | R-NT2RP4001064  | 8744 |
|    | NT2RP4001078 | F-NT2RP4001078 | 3721 | R-NT2RP4001078  | 8745 |
|    | NT2RP4001079 | F-NT2RP4001079 | 3722 | R-NT2RP4001079  | 8746 |
|    | NT2RP4001080 | F-NT2RP4001080 | 3723 | R-NT2RP4001080  | 8747 |
| 35 | NT2RP4001086 | F-NT2RP4001086 | 3724 | R-nnnnnnnnnnnnn | 8748 |
|    | NT2RP4001095 | F-NT2RP4001095 | 3725 | R-NT2RP4001095  | 8749 |
|    | NT2RP4001100 | F-NT2RP4001100 | 3726 | R-NT2RP4001100  | 8750 |
|    | NT2RP4001117 | F-NT2RP4001117 | 3727 | R-NT2RP4001117  | 8751 |
| 40 | NT2RP4001122 | F-NT2RP4001122 | 3728 | R-NT2RP4001122  | 8752 |
|    | NT2RP4001126 | F-NT2RP4001126 | 3729 | R-NT2RP4001126  | 8753 |
|    | NT2RP4001138 | F-NT2RP4001138 | 3730 | R-NT2RP4001138  | 8754 |
|    | NT2RP4001143 | F-NT2RP4001143 | 3731 | R-NT2RP4001143  | 8755 |
| 45 | NT2RP4001148 | F-NT2RP4001148 | 3732 | R-NT2RP4001148  | 8756 |
|    | NT2RP4001149 | F-NT2RP4001149 | 3733 | R-NT2RP4001149  | 8757 |
|    | NT2RP4001150 | F-NT2RP4001150 | 3734 | R-NT2RP4001150  | 8758 |
|    | NT2RP4001159 | F-NT2RP4001159 | 3735 | R-NT2RP4001159  | 8759 |
|    | NT2RP4001174 | F-NT2RP4001174 | 3736 | R-NT2RP4001174  | 8760 |
| 50 | NT2RP4001206 | F-NT2RP4001206 | 3737 | R-nnnnnnnnnnnnn | 8761 |
|    | NT2RP4001207 | F-NT2RP4001207 | 3738 | R-NT2RP4001207  | 8762 |
|    | NT2RP4001210 | F-NT2RP4001210 | 3739 | R-NT2RP4001210  | 8763 |
|    | NT2RP4001213 | F-NT2RP4001213 | 3740 | R-NT2RP4001213  | 8764 |
| 55 | NT2RP4001219 | F-NT2RP4001219 | 3741 | R-NT2RP4001219  | 8765 |

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|    | NT2RP4001228 | F-NT2RP4001228 | 3742 | R-NT2RP4001228       | 8766 |
|    | NT2RP4001235 | F-NT2RP4001235 | 3743 | R-NT2RP4001235       | 8767 |
|    | NT2RP4001256 | F-NT2RP4001256 | 3744 | R-NT2RP4001256       | 8768 |
| 5  | NT2RP4001260 | F-NT2RP4001260 | 3745 | R-NT2RP4001260       | 8769 |
|    | NT2RP4001274 | F-NT2RP4001274 | 3746 | R-NT2RP4001274       | 8770 |
|    | NT2RP4001276 | F-NT2RP4001276 | 3747 | R-ntntntntntntntntnt | 8771 |
|    | NT2RP4001313 | F-NT2RP4001313 | 3748 | R-NT2RP4001313       | 8772 |
| 10 | NT2RP4001315 | F-NT2RP4001315 | 3749 | R-NT2RP4001315       | 8773 |
|    | NT2RP4001336 | F-NT2RP4001336 | 3750 |                      |      |
|    | NT2RP4001339 | F-NT2RP4001339 | 3751 | R-NT2RP4001339       | 8774 |
|    | NT2RP4001343 | F-NT2RP4001343 | 3752 |                      |      |
| 15 | NT2RP4001345 | F-NT2RP4001345 | 3753 | R-NT2RP4001345       | 8775 |
|    | NT2RP4001351 | F-NT2RP4001351 | 3754 | R-NT2RP4001351       | 8776 |
|    | NT2RP4001353 | F-NT2RP4001353 | 3755 | R-NT2RP4001353       | 8777 |
|    | NT2RP4001372 | F-NT2RP4001372 | 3756 | R-NT2RP4001372       | 8778 |
| 20 | NT2RP4001373 | F-NT2RP4001373 | 3757 | R-NT2RP4001373       | 8779 |
|    | NT2RP4001375 | F-NT2RP4001375 | 3758 | R-NT2RP4001375       | 8780 |
|    | NT2RP4001379 | F-NT2RP4001379 | 3759 | R-NT2RP4001379       | 8781 |
|    | NT2RP4001389 | F-NT2RP4001389 | 3760 | R-NT2RP4001389       | 8782 |
| 25 | NT2RP4001407 | F-NT2RP4001407 | 3761 | R-NT2RP4001407       | 8783 |
|    | NT2RP4001414 | F-NT2RP4001414 | 3762 | R-NT2RP4001414       | 8784 |
|    | NT2RP4001433 | F-NT2RP4001433 | 3763 | R-NT2RP4001433       | 8785 |
|    | NT2RP4001442 | F-NT2RP4001442 | 3764 | R-NT2RP4001442       | 8786 |
|    | NT2RP4001447 | F-NT2RP4001447 | 3765 | R-NT2RP4001447       | 8787 |
| 30 | NT2RP4001474 | F-NT2RP4001474 | 3766 | R-NT2RP4001474       | 8788 |
|    | NT2RP4001483 | F-NT2RP4001483 | 3767 | R-NT2RP4001483       | 8789 |
|    | NT2RP4001498 | F-NT2RP4001498 | 3768 | R-NT2RP4001498       | 8790 |
|    | NT2RP4001502 | F-NT2RP4001502 | 3769 | R-NT2RP4001502       | 8791 |
| 35 | NT2RP4001507 | F-NT2RP4001507 | 3770 | R-NT2RP4001507       | 8792 |
|    | NT2RP4001524 | F-NT2RP4001524 | 3771 | R-NT2RP4001524       | 8793 |
|    | NT2RP4001529 | F-NT2RP4001529 | 3772 | R-NT2RP4001529       | 8794 |
|    | NT2RP4001547 | F-NT2RP4001547 | 3773 | R-NT2RP4001547       | 8795 |
| 40 | NT2RP4001551 | F-NT2RP4001551 | 3774 | R-ntntntntntntntntnt | 8796 |
|    | NT2RP4001555 | F-NT2RP4001555 | 3775 | R-NT2RP4001555       | 8797 |
|    | NT2RP4001567 | F-NT2RP4001567 | 3776 | R-NT2RP4001567       | 8798 |
|    | NT2RP4001568 | F-NT2RP4001568 | 3777 | R-NT2RP4001568       | 8799 |
| 45 | NT2RP4001571 | F-NT2RP4001571 | 3778 | R-NT2RP4001571       | 8800 |
|    | NT2RP4001574 | F-NT2RP4001574 | 3779 | R-NT2RP4001574       | 8801 |
|    | NT2RP4001575 | F-NT2RP4001575 | 3780 | R-NT2RP4001575       | 8802 |
|    | NT2RP4001592 | F-NT2RP4001592 | 3781 | R-NT2RP4001592       | 8803 |
| 50 | NT2RP4001610 | F-NT2RP4001610 | 3782 | R-NT2RP4001610       | 8804 |
|    | NT2RP4001614 | F-NT2RP4001614 | 3783 | R-NT2RP4001614       | 8805 |
|    | NT2RP4001634 | F-NT2RP4001634 | 3784 | R-NT2RP4001634       | 8806 |
|    | NT2RP4001638 | F-NT2RP4001638 | 3785 | R-NT2RP4001638       | 8807 |
|    | NT2RP4001644 | F-NT2RP4001644 | 3786 | R-NT2RP4001644       | 8808 |
| 55 | NT2RP4001656 | F-NT2RP4001656 | 3787 | R-NT2RP4001656       | 8809 |

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|    | NT2RP4001677 | F-NT2RP4001677 | 3788 | R-NT2RP4001677  | 8810 |
|    | NT2RP4001679 | F-NT2RP4001679 | 3789 |                 |      |
|    | NT2RP4001696 | F-NT2RP4001696 | 3790 | R-NT2RP4001696  | 8811 |
| 5  | NT2RP4001725 | F-NT2RP4001725 | 3791 | R-NT2RP4001725  | 8812 |
|    | NT2RP4001730 | F-NT2RP4001730 | 3792 | R-nnnnnnnnnnnnn | 8813 |
|    | NT2RP4001739 | F-NT2RP4001739 | 3793 | R-NT2RP4001739  | 8814 |
|    | NT2RP4001753 | F-NT2RP4001753 | 3794 | R-NT2RP4001753  | 8815 |
| 10 | NT2RP4001760 | F-NT2RP4001760 | 3795 | R-NT2RP4001760  | 8816 |
|    | NT2RP4001790 | F-NT2RP4001790 | 3796 | R-NT2RP4001790  | 8817 |
|    | NT2RP4001803 | F-NT2RP4001803 | 3797 | R-NT2RP4001803  | 8818 |
|    | NT2RP4001822 | F-NT2RP4001822 | 3798 | R-NT2RP4001822  | 8819 |
| 15 | NT2RP4001823 | F-NT2RP4001823 | 3799 | R-NT2RP4001823  | 8820 |
|    | NT2RP4001828 | F-NT2RP4001828 | 3800 | R-NT2RP4001828  | 8821 |
|    | NT2RP4001838 | F-NT2RP4001838 | 3801 | R-NT2RP4001838  | 8822 |
|    | NT2RP4001841 | F-NT2RP4001841 | 3802 |                 |      |
| 20 | NT2RP4001849 | F-NT2RP4001849 | 3803 | R-NT2RP4001849  | 8823 |
|    | NT2RP4001861 | F-NT2RP4001861 | 3804 |                 |      |
|    | NT2RP4001889 | F-NT2RP4001889 | 3805 | R-NT2RP4001889  | 8824 |
|    | NT2RP4001893 | F-NT2RP4001893 | 3806 | R-NT2RP4001893  | 8825 |
|    | NT2RP4001896 | F-NT2RP4001896 | 3807 | R-NT2RP4001896  | 8826 |
| 25 | NT2RP4001901 | F-NT2RP4001901 | 3808 | R-NT2RP4001901  | 8827 |
|    | NT2RP4001927 | F-NT2RP4001927 | 3809 | R-NT2RP4001927  | 8828 |
|    | NT2RP4001938 | F-NT2RP4001938 | 3810 | R-NT2RP4001938  | 8829 |
|    | NT2RP4001946 | F-NT2RP4001946 | 3811 | R-NT2RP4001946  | 8830 |
| 30 | NT2RP4001950 | F-NT2RP4001950 | 3812 | R-NT2RP4001950  | 8831 |
|    | NT2RP4001953 | F-NT2RP4001953 | 3813 | R-NT2RP4001953  | 8832 |
|    | NT2RP4001966 | F-NT2RP4001966 | 3814 | R-NT2RP4001966  | 8833 |
|    | NT2RP4001975 | F-NT2RP4001975 | 3815 | R-NT2RP4001975  | 8834 |
| 35 | NT2RP4002018 | F-NT2RP4002018 | 3816 | R-NT2RP4002018  | 8835 |
|    | NT2RP4002047 | F-NT2RP4002047 | 3817 | R-NT2RP4002047  | 8836 |
|    | NT2RP4002052 | F-NT2RP4002052 | 3818 | R-NT2RP4002052  | 8837 |
|    | NT2RP4002058 | F-NT2RP4002058 | 3819 | R-NT2RP4002058  | 8838 |
| 40 | NT2RP4002071 | F-NT2RP4002071 | 3820 | R-NT2RP4002071  | 8839 |
|    | NT2RP4002075 | F-NT2RP4002075 | 3821 | R-NT2RP4002075  | 8840 |
|    | NT2RP4002078 | F-NT2RP4002078 | 3822 | R-NT2RP4002078  | 8841 |
|    | NT2RP4002081 | F-NT2RP4002081 | 3823 | R-nnnnnnnnnnnnn | 8842 |
|    | NT2RP4002083 | F-NT2RP4002083 | 3824 | R-NT2RP4002083  | 8843 |
| 45 | NT2RP4002408 | F-NT2RP4002408 | 3825 | R-NT2RP4002408  | 8844 |
|    | NT2RP4002791 | F-NT2RP4002791 | 3826 | R-NT2RP4002791  | 8845 |
|    | NT2RP4002888 | F-NT2RP4002888 | 3827 | R-NT2RP4002888  | 8846 |
|    | NT2RP4002905 | F-NT2RP4002905 | 3828 | R-NT2RP4002905  | 8847 |
| 50 | NT2RP5003459 | F-NT2RP5003459 | 3829 |                 |      |
|    | NT2RP5003461 | F-NT2RP5003461 | 3830 |                 |      |
|    | NT2RP5003477 | F-NT2RP5003477 | 3831 |                 |      |
|    | NT2RP5003492 | F-NT2RP5003492 | 3832 |                 |      |
| 55 | NT2RP5003500 | F-NT2RP5003500 | 3833 |                 |      |

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|    | NT2RP5003506 | F-NT2RP5003506 | 3834 |                 |      |
|    | NT2RP5003512 | F-NT2RP5003512 | 3835 |                 |      |
|    | NT2RP5003522 | F-NT2RP5003522 | 3836 |                 |      |
| 5  | NT2RP5003524 | F-NT2RP5003524 | 3837 |                 |      |
|    | NT2RP5003534 | F-NT2RP5003534 | 3838 |                 |      |
|    | OVARC1000001 | F-OVARC1000001 | 3839 | R-OVARC1000001  | 8848 |
|    | OVARC1000004 | F-OVARC1000004 | 3840 | R-OVARC1000004  | 8849 |
| 10 | OVARC1000006 | F-OVARC1000006 | 3841 | R-OVARC1000006  | 8850 |
|    | OVARC1000013 | F-OVARC1000013 | 3842 | R-OVARC1000013  | 8851 |
|    | OVARC1000014 | F-OVARC1000014 | 3843 | R-OVARC1000014  | 8852 |
|    | OVARC1000017 | F-OVARC1000017 | 3844 | R-OVARC1000017  | 8853 |
| 15 | OVARC1000035 | F-OVARC1000035 | 3845 | R-OVARC1000035  | 8854 |
|    | OVARC1000058 | F-OVARC1000058 | 3846 | R-OVARC1000058  | 8855 |
|    | OVARC1000060 | F-OVARC1000060 | 3847 | R-OVARC1000060  | 8856 |
|    | OVARC1000068 | F-OVARC1000068 | 3848 | R-OVARC1000068  | 8857 |
| 20 | OVARC1000071 | F-OVARC1000071 | 3849 | R-OVARC1000071  | 8858 |
|    | OVARC1000085 | F-OVARC1000085 | 3850 | R-OVARC1000085  | 8859 |
|    | OVARC1000087 | F-OVARC1000087 | 3851 | R-nnnnnnnnnnnnn | 8860 |
|    | OVARC1000091 | F-OVARC1000091 | 3852 | R-OVARC1000091  | 8861 |
|    | OVARC1000092 | F-OVARC1000092 | 3853 | R-OVARC1000092  | 8862 |
| 25 | OVARC1000106 | F-OVARC1000106 | 3854 | R-OVARC1000106  | 8863 |
|    | OVARC1000109 | F-OVARC1000109 | 3855 |                 |      |
|    | OVARC1000113 | F-OVARC1000113 | 3856 | R-OVARC1000113  | 8864 |
|    | OVARC1000114 | F-OVARC1000114 | 3857 | R-OVARC1000114  | 8865 |
| 30 | OVARC1000133 | F-OVARC1000133 | 3858 | R-OVARC1000133  | 8866 |
|    | OVARC1000139 | F-OVARC1000139 | 3859 |                 |      |
|    | OVARC1000145 | F-OVARC1000145 | 3860 | R-OVARC1000145  | 8867 |
|    | OVARC1000148 | F-OVARC1000148 | 3861 | R-OVARC1000148  | 8868 |
| 35 | OVARC1000151 | F-OVARC1000151 | 3862 | R-OVARC1000151  | 8869 |
|    | OVARC1000168 | F-OVARC1000168 | 3863 | R-OVARC1000168  | 8870 |
|    | OVARC1000191 | F-OVARC1000191 | 3864 | R-OVARC1000191  | 8871 |
|    | OVARC1000198 | F-OVARC1000198 | 3865 | R-OVARC1000198  | 8872 |
| 40 | OVARC1000209 | F-OVARC1000209 | 3866 | R-OVARC1000209  | 8873 |
|    | OVARC1000212 | F-OVARC1000212 | 3867 | R-OVARC1000212  | 8874 |
|    | OVARC1000240 | F-OVARC1000240 | 3868 | R-OVARC1000240  | 8875 |
|    | OVARC1000241 | F-OVARC1000241 | 3869 | R-OVARC1000241  | 8876 |
| 45 | OVARC1000288 | F-OVARC1000288 | 3870 | R-OVARC1000288  | 8877 |
|    | OVARC1000302 | F-OVARC1000302 | 3871 | R-OVARC1000302  | 8878 |
|    | OVARC1000304 | F-OVARC1000304 | 3872 | R-OVARC1000304  | 8879 |
|    | OVARC1000309 | F-OVARC1000309 | 3873 | R-OVARC1000309  | 8880 |
|    | OVARC1000321 | F-OVARC1000321 | 3874 | R-OVARC1000321  | 8881 |
| 50 | OVARC1000326 | F-OVARC1000326 | 3875 | R-OVARC1000326  | 8882 |
|    | OVARC1000335 | F-OVARC1000335 | 3876 | R-OVARC1000335  | 8883 |
|    | OVARC1000347 | F-OVARC1000347 | 3877 | R-OVARC1000347  | 8884 |
|    | OVARC1000384 | F-OVARC1000384 | 3878 | R-OVARC1000384  | 8885 |
| 55 | OVARC1000408 | F-OVARC1000408 | 3879 | R-OVARC1000408  | 8886 |

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|    | OVARC1000411 | F-OVARC1000411 | 3880 | R-OVARC1000411  | 8887 |
|    | OVARC1000414 | F-OVARC1000414 | 3881 | R-OVARC1000414  | 8888 |
|    | OVARC1000420 | F-OVARC1000420 | 3882 | R-OVARC1000420  | 8889 |
| 5  | OVARC1000427 | F-OVARC1000427 | 3883 | R-OVARC1000427  | 8890 |
|    | OVARC1000431 | F-OVARC1000431 | 3884 | R-OVARC1000431  | 8891 |
|    | OVARC1000437 | F-OVARC1000437 | 3885 | R-OVARC1000437  | 8892 |
|    | OVARC1000440 | F-OVARC1000440 | 3886 | R-OVARC1000440  | 8893 |
| 10 | OVARC1000442 | F-OVARC1000442 | 3887 | R-OVARC1000442  | 8894 |
|    | OVARC1000443 | F-OVARC1000443 | 3888 | R-OVARC1000443  | 8895 |
|    | OVARC1000461 | F-OVARC1000461 | 3889 | R-OVARC1000461  | 8896 |
|    | OVARC1000465 | F-OVARC1000465 | 3890 | R-OVARC1000465  | 8897 |
| 15 | OVARC1000466 | F-OVARC1000466 | 3891 | R-OVARC1000466  | 8898 |
|    | OVARC1000473 | F-OVARC1000473 | 3892 | R-OVARC1000473  | 8899 |
|    | OVARC1000479 | F-OVARC1000479 | 3893 | R-OVARC1000479  | 8900 |
|    | OVARC1000486 | F-OVARC1000486 | 3894 | R-OVARC1000486  | 8901 |
| 20 | OVARC1000496 | F-OVARC1000496 | 3895 | R-OVARC1000496  | 8902 |
|    | OVARC1000520 | F-OVARC1000520 | 3896 | R-OVARC1000520  | 8903 |
|    | OVARC1000526 | F-OVARC1000526 | 3897 | R-OVARC1000526  | 8904 |
|    | OVARC1000533 | F-OVARC1000533 | 3898 | R-OVARC1000533  | 8905 |
|    | OVARC1000543 | F-OVARC1000543 | 3899 | R-OVARC1000543  | 8906 |
| 25 | OVARC1000556 | F-OVARC1000556 | 3900 | R-OVARC1000556  | 8907 |
|    | OVARC1000557 | F-OVARC1000557 | 3901 | R-OVARC1000557  | 8908 |
|    | OVARC1000564 | F-OVARC1000564 | 3902 | R-OVARC1000564  | 8909 |
|    | OVARC1000573 | F-OVARC1000573 | 3903 | R-OVARC1000573  | 8910 |
| 30 | OVARC1000576 | F-OVARC1000576 | 3904 |                 |      |
|    | OVARC1000578 | F-OVARC1000578 | 3905 | R-OVARC1000578  | 8911 |
|    | OVARC1000588 | F-OVARC1000588 | 3906 | R-OVARC1000588  | 8912 |
|    | OVARC1000605 | F-OVARC1000605 | 3907 | R-OVARC1000605  | 8913 |
| 35 | OVARC1000622 | F-OVARC1000622 | 3908 | R-OVARC1000622  | 8914 |
|    | OVARC1000640 | F-OVARC1000640 | 3909 | R-OVARC1000640  | 8915 |
|    | OVARC1000649 | F-OVARC1000649 | 3910 |                 |      |
|    | OVARC1000661 | F-OVARC1000661 | 3911 | R-OVARC1000661  | 8916 |
| 40 | OVARC1000678 | F-OVARC1000678 | 3912 | R-OVARC1000678  | 8917 |
|    | OVARC1000679 | F-OVARC1000679 | 3913 | R-nnnnnnnnnnnnn | 8918 |
|    | OVARC1000681 | F-OVARC1000681 | 3914 | R-OVARC1000681  | 8919 |
|    | OVARC1000682 | F-OVARC1000682 | 3915 |                 |      |
| 45 | OVARC1000689 | F-OVARC1000689 | 3916 | R-OVARC1000689  | 8920 |
|    | OVARC1000700 | F-OVARC1000700 | 3917 | R-OVARC1000700  | 8921 |
|    | OVARC1000703 | F-OVARC1000703 | 3918 | R-OVARC1000703  | 8922 |
|    | OVARC1000722 | F-OVARC1000722 | 3919 |                 |      |
|    | OVARC1000730 | F-OVARC1000730 | 3920 | R-OVARC1000730  | 8923 |
| 50 | OVARC1000746 | F-OVARC1000746 | 3921 | R-OVARC1000746  | 8924 |
|    | OVARC1000769 | F-OVARC1000769 | 3922 | R-OVARC1000769  | 8925 |
|    | OVARC1000771 | F-OVARC1000771 | 3923 | R-OVARC1000771  | 8926 |
|    | OVARC1000781 | F-OVARC1000781 | 3924 | R-OVARC1000781  | 8927 |
| 55 | OVARC1000787 | F-OVARC1000787 | 3925 | R-OVARC1000787  | 8928 |

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|    | OVARC1000800 | F-OVARC1000800 | 3926 | R-OVARC1000800 | 8929 |
|    | OVARC1000802 | F-OVARC1000802 | 3927 | R-OVARC1000802 | 8930 |
|    | OVARC1000834 | F-OVARC1000834 | 3928 | R-OVARC1000834 | 8931 |
| 5  | OVARC1000846 | F-OVARC1000846 | 3929 | R-OVARC1000846 | 8932 |
|    | OVARC1000850 | F-OVARC1000850 | 3930 | R-OVARC1000850 | 8933 |
|    | OVARC1000862 | F-OVARC1000862 | 3931 | R-OVARC1000862 | 8934 |
|    | OVARC1000876 | F-OVARC1000876 | 3932 | R-OVARC1000876 | 8935 |
| 10 | OVARC1000883 | F-OVARC1000883 | 3933 | R-OVARC1000883 | 8936 |
|    | OVARC1000885 | F-OVARC1000885 | 3934 | R-OVARC1000885 | 8937 |
|    | OVARC1000886 | F-OVARC1000886 | 3935 | R-OVARC1000886 | 8938 |
|    | OVARC1000890 | F-OVARC1000890 | 3936 |                |      |
| 15 | OVARC1000891 | F-OVARC1000891 | 3937 | R-OVARC1000891 | 8939 |
|    | OVARC1000897 | F-OVARC1000897 | 3938 | R-OVARC1000897 | 8940 |
|    | OVARC1000912 | F-OVARC1000912 | 3939 | R-OVARC1000912 | 8941 |
|    | OVARC1000915 | F-OVARC1000915 | 3940 | R-OVARC1000915 | 8942 |
| 20 | OVARC1000924 | F-OVARC1000924 | 3941 | R-OVARC1000924 | 8943 |
|    | OVARC1000936 | F-OVARC1000936 | 3942 | R-OVARC1000936 | 8944 |
|    | OVARC1000937 | F-OVARC1000937 | 3943 | R-OVARC1000937 | 8945 |
|    | OVARC1000945 | F-OVARC1000945 | 3944 | R-OVARC1000945 | 8946 |
|    | OVARC1000948 | F-OVARC1000948 | 3945 | R-OVARC1000948 | 8947 |
| 25 | OVARC1000959 | F-OVARC1000959 | 3946 | R-OVARC1000959 | 8948 |
|    | OVARC1000960 | F-OVARC1000960 | 3947 | R-OVARC1000960 | 8949 |
|    | OVARC1000964 | F-OVARC1000964 | 3948 |                |      |
|    | OVARC1000971 | F-OVARC1000971 | 3949 | R-OVARC1000971 | 8950 |
| 30 | OVARC1000984 | F-OVARC1000984 | 3950 | R-OVARC1000984 | 8951 |
|    | OVARC1000996 | F-OVARC1000996 | 3951 | R-OVARC1000996 | 8952 |
|    | OVARC1000999 | F-OVARC1000999 | 3952 | R-OVARC1000999 | 8953 |
|    | OVARC1001000 | F-OVARC1001000 | 3953 | R-OVARC1001000 | 8954 |
| 35 | OVARC1001004 | F-OVARC1001004 | 3954 | R-OVARC1001004 | 8955 |
|    | OVARC1001010 | F-OVARC1001010 | 3955 | R-OVARC1001010 | 8956 |
|    | OVARC1001011 | F-OVARC1001011 | 3956 | R-OVARC1001011 | 8957 |
|    | OVARC1001032 | F-OVARC1001032 | 3957 | R-OVARC1001032 | 8958 |
| 40 | OVARC1001034 | F-OVARC1001034 | 3958 | R-OVARC1001034 | 8959 |
|    | OVARC1001038 | F-OVARC1001038 | 3959 | R-OVARC1001038 | 8960 |
|    | OVARC1001040 | F-OVARC1001040 | 3960 | R-OVARC1001040 | 8961 |
|    | OVARC1001044 | F-OVARC1001044 | 3961 | R-OVARC1001044 | 8962 |
|    | OVARC1001051 | F-OVARC1001051 | 3962 | R-OVARC1001051 | 8963 |
| 45 | OVARC1001055 | F-OVARC1001055 | 3963 | R-OVARC1001055 | 8964 |
|    | OVARC1001062 | F-OVARC1001062 | 3964 | R-OVARC1001062 | 8965 |
|    | OVARC1001065 | F-OVARC1001065 | 3965 |                |      |
|    | OVARC1001068 | F-OVARC1001068 | 3966 | R-OVARC1001068 | 8966 |
| 50 | OVARC1001072 | F-OVARC1001072 | 3967 | R-OVARC1001072 | 8967 |
|    | OVARC1001074 | F-OVARC1001074 | 3968 | R-OVARC1001074 | 8968 |
|    | OVARC1001085 | F-OVARC1001085 | 3969 | R-OVARC1001085 | 8969 |
|    | OVARC1001092 | F-OVARC1001092 | 3970 | R-OVARC1001092 | 8970 |
| 55 | OVARC1001107 | F-OVARC1001107 | 3971 |                |      |

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|    | OVARC1001113 | F-OVARC1001113 | 3972 | R-OVARC1001113  | 8971 |
|    | OVARC1001117 | F-OVARC1001117 | 3973 | R-OVARC1001117  | 8972 |
|    | OVARC1001118 | F-OVARC1001118 | 3974 | R-OVARC1001118  | 8973 |
| 5  | OVARC1001129 | F-OVARC1001129 | 3975 | R-OVARC1001129  | 8974 |
|    | OVARC1001154 | F-OVARC1001154 | 3976 |                 |      |
|    | OVARC1001161 | F-OVARC1001161 | 3977 | R-OVARC1001161  | 8975 |
|    | OVARC1001162 | F-OVARC1001162 | 3978 | R-OVARC1001162  | 8976 |
| 10 | OVARC1001167 | F-OVARC1001167 | 3979 | R-OVARC1001167  | 8977 |
|    | OVARC1001169 | F-OVARC1001169 | 3980 | R-OVARC1001169  | 8978 |
|    | OVARC1001170 | F-OVARC1001170 | 3981 | R-OVARC1001170  | 8979 |
|    | OVARC1001171 | F-OVARC1001171 | 3982 |                 |      |
| 15 | OVARC1001173 | F-OVARC1001173 | 3983 | R-OVARC1001173  | 8980 |
|    | OVARC1001176 | F-OVARC1001176 | 3984 |                 |      |
|    | OVARC1001180 | F-OVARC1001180 | 3985 | R-OVARC1001180  | 8981 |
|    | OVARC1001188 | F-OVARC1001188 | 3986 | R-OVARC1001188  | 8982 |
| 20 | OVARC1001200 | F-OVARC1001200 | 3987 | R-OVARC1001200  | 8983 |
|    | OVARC1001232 | F-OVARC1001232 | 3988 | R-OVARC1001232  | 8984 |
|    | OVARC1001240 | F-OVARC1001240 | 3989 | R-OVARC1001240  | 8985 |
|    | OVARC1001243 | F-OVARC1001243 | 3990 | R-OVARC1001243  | 8986 |
|    | OVARC1001244 | F-OVARC1001244 | 3991 |                 |      |
| 25 | OVARC1001261 | F-OVARC1001261 | 3992 | R-OVARC1001261  | 8987 |
|    | OVARC1001268 | F-OVARC1001268 | 3993 | R-OVARC1001268  | 8988 |
|    | OVARC1001270 | F-OVARC1001270 | 3994 | R-OVARC1001270  | 8989 |
|    | OVARC1001271 | F-OVARC1001271 | 3995 | R-OVARC1001271  | 8990 |
| 30 | OVARC1001282 | F-OVARC1001282 | 3996 | R-OVARC1001282  | 8991 |
|    | OVARC1001296 | F-OVARC1001296 | 3997 | R-OVARC1001296  | 8992 |
|    | OVARC1001306 | F-OVARC1001306 | 3998 | R-nnnnnnnnnnnnn | 8993 |
|    | OVARC1001329 | F-OVARC1001329 | 3999 | R-OVARC1001329  | 8994 |
| 35 | OVARC1001330 | F-OVARC1001330 | 4000 | R-OVARC1001330  | 8995 |
|    | OVARC1001339 | F-OVARC1001339 | 4001 | R-OVARC1001339  | 8996 |
|    | OVARC1001341 | F-OVARC1001341 | 4002 | R-OVARC1001341  | 8997 |
|    | OVARC1001342 | F-OVARC1001342 | 4003 | R-OVARC1001342  | 8998 |
| 40 | OVARC1001344 | F-OVARC1001344 | 4004 | R-OVARC1001344  | 8999 |
|    | OVARC1001357 | F-OVARC1001357 | 4005 | R-OVARC1001357  | 9000 |
|    | OVARC1001360 | F-OVARC1001360 | 4006 | R-OVARC1001360  | 9001 |
|    | OVARC1001369 | F-OVARC1001369 | 4007 | R-OVARC1001369  | 9002 |
|    | OVARC1001372 | F-OVARC1001372 | 4008 | R-OVARC1001372  | 9003 |
| 45 | OVARC1001376 | F-OVARC1001376 | 4009 | R-OVARC1001376  | 9004 |
|    | OVARC1001381 | F-OVARC1001381 | 4010 | R-OVARC1001381  | 9005 |
|    | OVARC1001391 | F-OVARC1001391 | 4011 | R-OVARC1001391  | 9006 |
|    | OVARC1001399 | F-OVARC1001399 | 4012 | R-nnnnnnnnnnnnn | 9007 |
| 50 | OVARC1001417 | F-OVARC1001417 | 4013 | R-OVARC1001417  | 9008 |
|    | OVARC1001419 | F-OVARC1001419 | 4014 | R-OVARC1001419  | 9009 |
|    | OVARC1001425 | F-OVARC1001425 | 4015 | R-OVARC1001425  | 9010 |
|    | OVARC1001436 | F-OVARC1001436 | 4016 | R-OVARC1001436  | 9011 |
| 55 | OVARC1001442 | F-OVARC1001442 | 4017 | R-OVARC1001442  | 9012 |

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|    | OVARC1001453 | F-OVARC1001453 | 4018 | R-OVARC1001453  | 9013 |
|    | OVARC1001476 | F-OVARC1001476 | 4019 | R-OVARC1001476  | 9014 |
|    | OVARC1001480 | F-OVARC1001480 | 4020 | R-OVARC1001480  | 9015 |
| 5  | OVARC1001489 | F-OVARC1001489 | 4021 | R-OVARC1001489  | 9016 |
|    | OVARC1001496 | F-OVARC1001496 | 4022 | R-OVARC1001496  | 9017 |
|    | OVARC1001506 | F-OVARC1001506 | 4023 | R-OVARC1001506  | 9018 |
|    | OVARC1001525 | F-OVARC1001525 | 4024 | R-OVARC1001525  | 9019 |
| 10 | OVARC1001542 | F-OVARC1001542 | 4025 | R-OVARC1001542  | 9020 |
|    | OVARC1001547 | F-OVARC1001547 | 4026 | R-OVARC1001547  | 9021 |
|    | OVARC1001555 | F-OVARC1001555 | 4027 |                 |      |
|    | OVARC1001577 | F-OVARC1001577 | 4028 | R-OVARC1001577  | 9022 |
| 15 | OVARC1001600 | F-OVARC1001600 | 4029 | R-OVARC1001600  | 9023 |
|    | OVARC1001610 | F-OVARC1001610 | 4030 | R-OVARC1001610  | 9024 |
|    | OVARC1001611 | F-OVARC1001611 | 4031 | R-OVARC1001611  | 9025 |
|    | OVARC1001615 | F-OVARC1001615 | 4032 | R-OVARC1001615  | 9026 |
| 20 | OVARC1001668 | F-OVARC1001668 | 4033 | R-OVARC1001668  | 9027 |
|    | OVARC1001702 | F-OVARC1001702 | 4034 | R-OVARC1001702  | 9028 |
|    | OVARC1001703 | F-OVARC1001703 | 4035 | R-OVARC1001703  | 9029 |
|    | OVARC1001711 | F-OVARC1001711 | 4036 | R-OVARC1001711  | 9030 |
|    | OVARC1001713 | F-OVARC1001713 | 4037 |                 |      |
| 25 | OVARC1001726 | F-OVARC1001726 | 4038 | R-OVARC1001726  | 9031 |
|    | OVARC1001731 | F-OVARC1001731 | 4039 | R-OVARC1001731  | 9032 |
|    | OVARC1001745 | F-OVARC1001745 | 4040 | R-OVARC1001745  | 9033 |
|    | OVARC1001762 | F-OVARC1001762 | 4041 | R-nnnnnnnnnnnnn | 9034 |
| 30 | OVARC1001766 | F-OVARC1001766 | 4042 | R-OVARC1001766  | 9035 |
|    | OVARC1001767 | F-OVARC1001767 | 4043 | R-nnnnnnnnnnnnn | 9036 |
|    | OVARC1001768 | F-OVARC1001768 | 4044 | R-OVARC1001768  | 9037 |
|    | OVARC1001791 | F-OVARC1001791 | 4045 | R-OVARC1001791  | 9038 |
| 35 | OVARC1001795 | F-OVARC1001795 | 4046 | R-OVARC1001795  | 9039 |
|    | OVARC1001802 | F-OVARC1001802 | 4047 | R-OVARC1001802  | 9040 |
|    | OVARC1001805 | F-OVARC1001805 | 4048 | R-OVARC1001805  | 9041 |
|    | OVARC1001809 | F-OVARC1001809 | 4049 |                 |      |
|    | OVARC1001812 | F-OVARC1001812 | 4050 | R-OVARC1001812  | 9042 |
| 40 | OVARC1001813 | F-OVARC1001813 | 4051 | R-OVARC1001813  | 9043 |
|    | OVARC1001820 | F-OVARC1001820 | 4052 | R-OVARC1001820  | 9044 |
|    | OVARC1001828 | F-OVARC1001828 | 4053 | R-OVARC1001828  | 9045 |
|    | OVARC1001846 | F-OVARC1001846 | 4054 | R-OVARC1001846  | 9046 |
| 45 | OVARC1001861 | F-OVARC1001861 | 4055 | R-OVARC1001861  | 9047 |
|    | OVARC1001873 | F-OVARC1001873 | 4056 | R-OVARC1001873  | 9048 |
|    | OVARC1001879 | F-OVARC1001879 | 4057 | R-OVARC1001879  | 9049 |
|    | OVARC1001880 | F-OVARC1001880 | 4058 | R-OVARC1001880  | 9050 |
| 50 | OVARC1001883 | F-OVARC1001883 | 4059 | R-OVARC1001883  | 9051 |
|    | OVARC1001900 | F-OVARC1001900 | 4060 | R-OVARC1001900  | 9052 |
|    | OVARC1001901 | F-OVARC1001901 | 4061 | R-OVARC1001901  | 9053 |
|    | OVARC1001911 | F-OVARC1001911 | 4062 | R-OVARC1001911  | 9054 |
| 55 | OVARC1001916 | F-OVARC1001916 | 4063 | R-OVARC1001916  | 9055 |



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|    | OVARC1001928 | F-OVARC1001928 | 4064 | R-OVARC1001928 | 9056 |
|    | OVARC1001942 | F-OVARC1001942 | 4065 | R-OVARC1001942 | 9057 |
|    | OVARC1001943 | F-OVARC1001943 | 4066 | R-OVARC1001943 | 9058 |
| 5  | OVARC1001949 | F-OVARC1001949 | 4067 | R-OVARC1001949 | 9059 |
|    | OVARC1001950 | F-OVARC1001950 | 4068 | R-OVARC1001950 | 9060 |
|    | OVARC1001987 | F-OVARC1001987 | 4069 | R-OVARC1001987 | 9061 |
|    | OVARC1001989 | F-OVARC1001989 | 4070 | R-OVARC1001989 | 9062 |
| 10 | OVARC1002044 | F-OVARC1002044 | 4071 | R-OVARC1002044 | 9063 |
|    | OVARC1002050 | F-OVARC1002050 | 4072 | R-OVARC1002050 | 9064 |
|    | OVARC1002066 | F-OVARC1002066 | 4073 | R-OVARC1002066 | 9065 |
|    | OVARC1002082 | F-OVARC1002082 | 4074 | R-OVARC1002082 | 9066 |
| 15 | OVARC1002107 | F-OVARC1002107 | 4075 | R-OVARC1002107 | 9067 |
|    | OVARC1002112 | F-OVARC1002112 | 4076 |                |      |
|    | OVARC1002127 | F-OVARC1002127 | 4077 | R-OVARC1002127 | 9068 |
|    | OVARC1002138 | F-OVARC1002138 | 4078 | R-OVARC1002138 | 9069 |
| 20 | OVARC1002143 | F-OVARC1002143 | 4079 | R-OVARC1002143 | 9070 |
|    | OVARC1002156 | F-OVARC1002156 | 4080 | R-OVARC1002156 | 9071 |
|    | OVARC1002158 | F-OVARC1002158 | 4081 | R-OVARC1002158 | 9072 |
|    | OVARC1002165 | F-OVARC1002165 | 4082 | R-OVARC1002165 | 9073 |
|    | OVARC1002182 | F-OVARC1002182 | 4083 | R-OVARC1002182 | 9074 |
| 25 | PLACE1000004 | F-PLACE1000004 | 4084 | R-PLACE1000004 | 9075 |
|    | PLACE1000005 | F-PLACE1000005 | 4085 | R-PLACE1000005 | 9076 |
|    | PLACE1000007 | F-PLACE1000007 | 4086 | R-PLACE1000007 | 9077 |
|    | PLACE1000014 | F-PLACE1000014 | 4087 | R-PLACE1000014 | 9078 |
| 30 | PLACE1000031 | F-PLACE1000031 | 4088 | R-PLACE1000031 | 9079 |
|    | PLACE1000040 | F-PLACE1000040 | 4089 | R-PLACE1000040 | 9080 |
|    | PLACE1000048 | F-PLACE1000048 | 4090 | R-PLACE1000048 | 9081 |
|    | PLACE1000050 | F-PLACE1000050 | 4091 | R-PLACE1000050 | 9082 |
| 35 | PLACE1000061 | F-PLACE1000061 | 4092 | R-PLACE1000061 | 9083 |
|    | PLACE1000066 | F-PLACE1000066 | 4093 | R-PLACE1000066 | 9084 |
|    | PLACE1000078 | F-PLACE1000078 | 4094 | R-PLACE1000078 | 9085 |
|    | PLACE1000081 | F-PLACE1000081 | 4095 | R-PLACE1000081 | 9086 |
|    | PLACE1000094 | F-PLACE1000094 | 4096 | R-PLACE1000094 | 9087 |
| 40 | PLACE1000133 | F-PLACE1000133 | 4097 | R-PLACE1000133 | 9088 |
|    | PLACE1000142 | F-PLACE1000142 | 4098 | R-PLACE1000142 | 9089 |
|    | PLACE1000184 | F-PLACE1000184 | 4099 | R-PLACE1000184 | 9090 |
|    | PLACE1000185 | F-PLACE1000185 | 4100 | R-PLACE1000185 | 9091 |
| 45 | PLACE1000213 | F-PLACE1000213 | 4101 | R-PLACE1000213 | 9092 |
|    | PLACE1000214 | F-PLACE1000214 | 4102 | R-PLACE1000214 | 9093 |
|    | PLACE1000236 | F-PLACE1000236 | 4103 | R-PLACE1000236 | 9094 |
|    | PLACE1000246 | F-PLACE1000246 | 4104 | R-PLACE1000246 | 9095 |
| 50 | PLACE1000292 | F-PLACE1000292 | 4105 | R-PLACE1000292 | 9096 |
|    | PLACE1000308 | F-PLACE1000308 | 4106 |                |      |
|    | PLACE1000332 | F-PLACE1000332 | 4107 | R-PLACE1000332 | 9097 |
|    | PLACE1000347 | F-PLACE1000347 | 4108 | R-PLACE1000347 | 9098 |
| 55 | PLACE1000374 | F-PLACE1000374 | 4109 | R-PLACE1000374 | 9099 |

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|    | PLACE1000383 | F-PLACE1000383 | 4111 | R-PLACE1000383  | 9101 |
|    | PLACE1000401 | F-PLACE1000401 | 4112 | R-PLACE1000401  | 9102 |
| 5  | PLACE1000406 | F-PLACE1000406 | 4113 | R-PLACE1000406  | 9103 |
|    | PLACE1000420 | F-PLACE1000420 | 4114 | R-PLACE1000420  | 9104 |
|    | PLACE1000421 | F-PLACE1000421 | 4115 | R-PLACE1000421  | 9105 |
|    | PLACE1000424 | F-PLACE1000424 | 4116 | R-PLACE1000424  | 9106 |
| 10 | PLACE1000435 | F-PLACE1000435 | 4117 | R-PLACE1000435  | 9107 |
|    | PLACE1000444 | F-PLACE1000444 | 4118 | R-PLACE1000444  | 9108 |
|    | PLACE1000453 | F-PLACE1000453 | 4119 | R-PLACE1000453  | 9109 |
|    | PLACE1000481 | F-PLACE1000481 | 4120 | R-PLACE1000481  | 9110 |
| 15 | PLACE1000492 | F-PLACE1000492 | 4121 | R-PLACE1000492  | 9111 |
|    | PLACE1000540 | F-PLACE1000540 | 4122 | R-PLACE1000540  | 9112 |
|    | PLACE1000547 | F-PLACE1000547 | 4123 | R-PLACE1000547  | 9113 |
|    | PLACE1000562 | F-PLACE1000562 | 4124 | R-PLACE1000562  | 9114 |
| 20 | PLACE1000564 | F-PLACE1000564 | 4125 | R-PLACE1000564  | 9115 |
|    | PLACE1000583 | F-PLACE1000583 | 4126 | R-PLACE1000583  | 9116 |
|    | PLACE1000588 | F-PLACE1000588 | 4127 | R-nnnnnnnnnnnnn | 9117 |
|    | PLACE1000596 | F-PLACE1000596 | 4128 | R-PLACE1000596  | 9118 |
|    | PLACE1000599 | F-PLACE1000599 | 4129 | R-PLACE1000599  | 9119 |
| 25 | PLACE1000610 | F-PLACE1000610 | 4130 | R-PLACE1000610  | 9120 |
|    | PLACE1000611 | F-PLACE1000611 | 4131 |                 |      |
|    | PLACE1000636 | F-PLACE1000636 | 4132 | R-PLACE1000636  | 9121 |
|    | PLACE1000653 | F-PLACE1000653 | 4133 | R-PLACE1000653  | 9122 |
| 30 | PLACE1000656 | F-PLACE1000656 | 4134 | R-PLACE1000656  | 9123 |
|    | PLACE1000706 | F-PLACE1000706 | 4135 | R-PLACE1000706  | 9124 |
|    | PLACE1000712 | F-PLACE1000712 | 4136 | R-PLACE1000712  | 9125 |
|    | PLACE1000716 | F-PLACE1000716 | 4137 | R-PLACE1000716  | 9126 |
| 35 | PLACE1000748 | F-PLACE1000748 | 4138 | R-PLACE1000748  | 9127 |
|    | PLACE1000749 | F-PLACE1000749 | 4139 | R-PLACE1000749  | 9128 |
|    | PLACE1000755 | F-PLACE1000755 | 4140 | R-PLACE1000755  | 9129 |
|    | PLACE1000769 | F-PLACE1000769 | 4141 | R-PLACE1000769  | 9130 |
|    | PLACE1000785 | F-PLACE1000785 | 4142 | R-PLACE1000785  | 9131 |
| 40 | PLACE1000786 | F-PLACE1000786 | 4143 | R-PLACE1000786  | 9132 |
|    | PLACE1000793 | F-PLACE1000793 | 4144 | R-nnnnnnnnnnnnn | 9133 |
|    | PLACE1000798 | F-PLACE1000798 | 4145 | R-PLACE1000798  | 9134 |
|    | PLACE1000841 | F-PLACE1000841 | 4146 | R-PLACE1000841  | 9135 |
| 45 | PLACE1000849 | F-PLACE1000849 | 4147 | R-nnnnnnnnnnnnn | 9136 |
|    | PLACE1000856 | F-PLACE1000856 | 4148 | R-PLACE1000856  | 9137 |
|    | PLACE1000863 | F-PLACE1000863 | 4149 | R-PLACE1000863  | 9138 |
|    | PLACE1000909 | F-PLACE1000909 | 4150 | R-PLACE1000909  | 9139 |
| 50 | PLACE1000931 | F-PLACE1000931 | 4151 | R-PLACE1000931  | 9140 |
|    | PLACE1000948 | F-PLACE1000948 | 4152 | R-PLACE1000948  | 9141 |
|    | PLACE1000972 | F-PLACE1000972 | 4153 | R-PLACE1000972  | 9142 |
|    | PLACE1000977 | F-PLACE1000977 | 4154 | R-PLACE1000977  | 9143 |
| 55 | PLACE1000979 | F-PLACE1000979 | 4155 | R-PLACE1000979  | 9144 |

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|    | PLACE1001007 | F-PLACE1001007 | 4158 | R-PLACE1001007 | 9146 |
| 5  | PLACE1001010 | F-PLACE1001010 | 4159 | R-PLACE1001010 | 9147 |
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|    | PLACE1001024 | F-PLACE1001024 | 4161 | R-PLACE1001024 | 9149 |
|    | PLACE1001036 | F-PLACE1001036 | 4162 | R-PLACE1001036 | 9150 |
| 10 | PLACE1001054 | F-PLACE1001054 | 4163 |                |      |
|    | PLACE1001062 | F-PLACE1001062 | 4164 | R-PLACE1001062 | 9151 |
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|    | PLACE1001136 | F-PLACE1001136 | 4170 | R-PLACE1001136 | 9157 |
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| 20 | PLACE1001171 | F-PLACE1001171 | 4172 | R-PLACE1001171 | 9159 |
|    | PLACE1001185 | F-PLACE1001185 | 4173 | R-PLACE1001185 | 9160 |
|    | PLACE1001238 | F-PLACE1001238 | 4174 | R-PLACE1001238 | 9161 |
|    | PLACE1001241 | F-PLACE1001241 | 4175 | R-PLACE1001241 | 9162 |
| 25 | PLACE1001257 | F-PLACE1001257 | 4176 | R-PLACE1001257 | 9163 |
|    | PLACE1001272 | F-PLACE1001272 | 4177 | R-PLACE1001272 | 9164 |
|    | PLACE1001279 | F-PLACE1001279 | 4178 | R-PLACE1001279 | 9165 |
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| 30 | PLACE1001294 | F-PLACE1001294 | 4180 | R-PLACE1001294 | 9167 |
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|    | PLACE1001311 | F-PLACE1001311 | 4182 | R-PLACE1001311 | 9169 |
|    | PLACE1001323 | F-PLACE1001323 | 4183 | R-PLACE1001323 | 9170 |
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|    | PLACE1001377 | F-PLACE1001377 | 4186 | R-PLACE1001377 | 9173 |
|    | PLACE1001383 | F-PLACE1001383 | 4187 | R-PLACE1001383 | 9174 |
|    | PLACE1001384 | F-PLACE1001384 | 4188 | R-PLACE1001384 | 9175 |
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|    | PLACE1001399 | F-PLACE1001399 | 4191 | R-PLACE1001399 | 9178 |
|    | PLACE1001412 | F-PLACE1001412 | 4192 | R-PLACE1001412 | 9179 |
| 45 | PLACE1001414 | F-PLACE1001414 | 4193 | R-PLACE1001414 | 9180 |
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|    | PLACE1001456 | F-PLACE1001456 | 4195 | R-PLACE1001456 | 9182 |
|    | PLACE1001468 | F-PLACE1001468 | 4196 | R-PLACE1001468 | 9183 |
|    | PLACE1001484 | F-PLACE1001484 | 4197 | R-PLACE1001484 | 9184 |
| 50 | PLACE1001502 | F-PLACE1001502 | 4198 | R-PLACE1001502 | 9185 |
|    | PLACE1001503 | F-PLACE1001503 | 4199 | R-PLACE1001503 | 9186 |
|    | PLACE1001517 | F-PLACE1001517 | 4200 | R-PLACE1001517 | 9187 |
| 55 | PLACE1001534 | F-PLACE1001534 | 4201 | R-PLACE1001534 | 9188 |

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|    | PLACE1001551 | F-PLACE1001551 | 4203 | R-PLACE1001551 | 9190 |
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|    | PLACE1001602 | F-PLACE1001602 | 4205 | R-PLACE1001602 | 9192 |
|    | PLACE1001603 | F-PLACE1001603 | 4206 | R-PLACE1001603 | 9193 |
|    | PLACE1001608 | F-PLACE1001608 | 4207 |                |      |
|    | PLACE1001610 | F-PLACE1001610 | 4208 | R-PLACE1001610 | 9194 |
| 10 | PLACE1001611 | F-PLACE1001611 | 4209 | R-PLACE1001611 | 9195 |
|    | PLACE1001632 | F-PLACE1001632 | 4210 | R-PLACE1001632 | 9196 |
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|    | PLACE1001640 | F-PLACE1001640 | 4212 | R-PLACE1001640 | 9198 |
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|    | PLACE1001692 | F-PLACE1001692 | 4215 | R-PLACE1001692 | 9201 |
|    | PLACE1001705 | F-PLACE1001705 | 4216 | R-PLACE1001705 | 9202 |
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|    | PLACE1001720 | F-PLACE1001720 | 4218 | R-PLACE1001720 | 9204 |
|    | PLACE1001729 | F-PLACE1001729 | 4219 | R-PLACE1001729 | 9205 |
|    | PLACE1001739 | F-PLACE1001739 | 4220 | R-PLACE1001739 | 9206 |
| 25 | PLACE1001740 | F-PLACE1001740 | 4221 | R-PLACE1001740 | 9207 |
|    | PLACE1001745 | F-PLACE1001745 | 4222 | R-PLACE1001745 | 9208 |
|    | PLACE1001746 | F-PLACE1001746 | 4223 | R-PLACE1001746 | 9209 |
|    | PLACE1001748 | F-PLACE1001748 | 4224 | R-PLACE1001748 | 9210 |
|    | PLACE1001756 | F-PLACE1001756 | 4225 | R-PLACE1001756 | 9211 |
| 30 | PLACE1001761 | F-PLACE1001761 | 4226 | R-PLACE1001761 | 9212 |
|    | PLACE1001771 | F-PLACE1001771 | 4227 | R-PLACE1001771 | 9213 |
|    | PLACE1001781 | F-PLACE1001781 | 4228 | R-PLACE1001781 | 9214 |
|    | PLACE1001799 | F-PLACE1001799 | 4229 | R-PLACE1001799 | 9215 |
| 35 | PLACE1001810 | F-PLACE1001810 | 4230 |                |      |
|    | PLACE1001817 | F-PLACE1001817 | 4231 | R-PLACE1001817 | 9216 |
|    | PLACE1001821 | F-PLACE1001821 | 4232 | R-PLACE1001821 | 9217 |
|    | PLACE1001844 | F-PLACE1001844 | 4233 |                |      |
| 40 | PLACE1001845 | F-PLACE1001845 | 4234 | R-PLACE1001845 | 9218 |
|    | PLACE1001869 | F-PLACE1001869 | 4235 | R-PLACE1001869 | 9219 |
|    | PLACE1001897 | F-PLACE1001897 | 4236 | R-PLACE1001897 | 9220 |
|    | PLACE1001912 | F-PLACE1001912 | 4237 | R-PLACE1001912 | 9221 |
|    | PLACE1001920 | F-PLACE1001920 | 4238 | R-PLACE1001920 | 9222 |
| 45 | PLACE1001928 | F-PLACE1001928 | 4239 | R-PLACE1001928 | 9223 |
|    | PLACE1001983 | F-PLACE1001983 | 4240 | R-PLACE1001983 | 9224 |
|    | PLACE1001989 | F-PLACE1001989 | 4241 | R-PLACE1001989 | 9225 |
|    | PLACE1002004 | F-PLACE1002004 | 4242 |                |      |
| 50 | PLACE1002046 | F-PLACE1002046 | 4243 | R-PLACE1002046 | 9226 |
|    | PLACE1002052 | F-PLACE1002052 | 4244 | R-PLACE1002052 | 9227 |
|    | PLACE1002066 | F-PLACE1002066 | 4245 | R-PLACE1002066 | 9228 |
|    | PLACE1002072 | F-PLACE1002072 | 4246 | R-PLACE1002072 | 9229 |
| 55 | PLACE1002073 | F-PLACE1002073 | 4247 | R-PLACE1002073 | 9230 |

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|    | PLACE1002115 | F-PLACE1002115 | 4249 | R-PLACE1002115 | 9232 |
| 5  | PLACE1002119 | F-PLACE1002119 | 4250 | R-PLACE1002119 | 9233 |
|    | PLACE1002140 | F-PLACE1002140 | 4251 | R-PLACE1002140 | 9234 |
|    | PLACE1002150 | F-PLACE1002150 | 4252 | R-PLACE1002150 | 9235 |
|    | PLACE1002157 | F-PLACE1002157 | 4253 | R-PLACE1002157 | 9236 |
|    | PLACE1002163 | F-PLACE1002163 | 4254 | R-PLACE1002163 | 9237 |
| 10 | PLACE1002170 | F-PLACE1002170 | 4255 |                |      |
|    | PLACE1002171 | F-PLACE1002171 | 4256 | R-PLACE1002171 | 9238 |
|    | PLACE1002205 | F-PLACE1002205 | 4257 | R-PLACE1002205 | 9239 |
|    | PLACE1002213 | F-PLACE1002213 | 4258 | R-PLACE1002213 | 9240 |
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|    | PLACE1002259 | F-PLACE1002259 | 4261 | R-PLACE1002259 | 9243 |
|    | PLACE1002319 | F-PLACE1002319 | 4262 | R-PLACE1002319 | 9244 |
| 20 | PLACE1002342 | F-PLACE1002342 | 4263 | R-PLACE1002342 | 9245 |
|    | PLACE1002395 | F-PLACE1002395 | 4264 | R-PLACE1002395 | 9246 |
|    | PLACE1002399 | F-PLACE1002399 | 4265 | R-PLACE1002399 | 9247 |
|    | PLACE1002433 | F-PLACE1002433 | 4266 | R-PLACE1002433 | 9248 |
|    | PLACE1002437 | F-PLACE1002437 | 4267 | R-PLACE1002437 | 9249 |
| 25 | PLACE1002438 | F-PLACE1002438 | 4268 | R-PLACE1002438 | 9250 |
|    | PLACE1002450 | F-PLACE1002450 | 4269 | R-PLACE1002450 | 9251 |
|    | PLACE1002465 | F-PLACE1002465 | 4270 | R-PLACE1002465 | 9252 |
|    | PLACE1002474 | F-PLACE1002474 | 4271 | R-PLACE1002474 | 9253 |
| 30 | PLACE1002477 | F-PLACE1002477 | 4272 | R-PLACE1002477 | 9254 |
|    | PLACE1002493 | F-PLACE1002493 | 4273 | R-PLACE1002493 | 9255 |
|    | PLACE1002499 | F-PLACE1002499 | 4274 | R-PLACE1002499 | 9256 |
|    | PLACE1002500 | F-PLACE1002500 | 4275 | R-PLACE1002500 | 9257 |
| 35 | PLACE1002514 | F-PLACE1002514 | 4276 | R-PLACE1002514 | 9258 |
|    | PLACE1002529 | F-PLACE1002529 | 4277 | R-PLACE1002529 | 9259 |
|    | PLACE1002532 | F-PLACE1002532 | 4278 | R-PLACE1002532 | 9260 |
|    | PLACE1002537 | F-PLACE1002537 | 4279 | R-PLACE1002537 | 9261 |
|    | PLACE1002571 | F-PLACE1002571 | 4280 | R-PLACE1002571 | 9262 |
| 40 | PLACE1002578 | F-PLACE1002578 | 4281 | R-PLACE1002578 | 9263 |
|    | PLACE1002583 | F-PLACE1002583 | 4282 | R-PLACE1002583 | 9264 |
|    | PLACE1002591 | F-PLACE1002591 | 4283 | R-PLACE1002591 | 9265 |
|    | PLACE1002598 | F-PLACE1002598 | 4284 | R-PLACE1002598 | 9266 |
| 45 | PLACE1002604 | F-PLACE1002604 | 4285 | R-PLACE1002604 | 9267 |
|    | PLACE1002625 | F-PLACE1002625 | 4286 | R-PLACE1002625 | 9268 |
|    | PLACE1002655 | F-PLACE1002655 | 4287 |                |      |
|    | PLACE1002665 | F-PLACE1002665 | 4288 | R-PLACE1002665 | 9269 |
|    | PLACE1002685 | F-PLACE1002685 | 4289 | R-PLACE1002685 | 9270 |
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|    | PLACE1002722 | F-PLACE1002722 | 4291 | R-PLACE1002722 | 9272 |
|    | PLACE1002768 | F-PLACE1002768 | 4292 | R-PLACE1002768 | 9273 |
| 55 | PLACE1002772 | F-PLACE1002772 | 4293 | R-PLACE1002772 | 9274 |

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|    | PLACE1002794 | F-PLACE1002794 | 4296 | R-PLACE1002794 | 9276 |
| 5  | PLACE1002811 | F-PLACE1002811 | 4297 | R-PLACE1002811 | 9277 |
|    | PLACE1002815 | F-PLACE1002815 | 4298 | R-PLACE1002815 | 9278 |
|    | PLACE1002816 | F-PLACE1002816 | 4299 | R-PLACE1002816 | 9279 |
|    | PLACE1002834 | F-PLACE1002834 | 4300 | R-PLACE1002834 | 9280 |
| 10 | PLACE1002839 | F-PLACE1002839 | 4301 | R-PLACE1002839 | 9281 |
|    | PLACE1002851 | F-PLACE1002851 | 4302 | R-PLACE1002851 | 9282 |
|    | PLACE1002853 | F-PLACE1002853 | 4303 | R-PLACE1002853 | 9283 |
|    | PLACE1002881 | F-PLACE1002881 | 4304 | R-PLACE1002881 | 9284 |
| 15 | PLACE1002908 | F-PLACE1002908 | 4305 | R-PLACE1002908 | 9285 |
|    | PLACE1002941 | F-PLACE1002941 | 4306 | R-PLACE1002941 | 9286 |
|    | PLACE1002962 | F-PLACE1002962 | 4307 | R-PLACE1002962 | 9287 |
|    | PLACE1002968 | F-PLACE1002968 | 4308 | R-PLACE1002968 | 9288 |
| 20 | PLACE1002991 | F-PLACE1002991 | 4309 | R-PLACE1002991 | 9289 |
|    | PLACE1002993 | F-PLACE1002993 | 4310 | R-PLACE1002993 | 9290 |
|    | PLACE1002996 | F-PLACE1002996 | 4311 | R-PLACE1002996 | 9291 |
|    | PLACE1003025 | F-PLACE1003025 | 4312 | R-PLACE1003025 | 9292 |
|    | PLACE1003027 | F-PLACE1003027 | 4313 | R-PLACE1003027 | 9293 |
| 25 | PLACE1003044 | F-PLACE1003044 | 4314 | R-PLACE1003044 | 9294 |
|    | PLACE1003045 | F-PLACE1003045 | 4315 |                |      |
|    | PLACE1003092 | F-PLACE1003092 | 4316 | R-PLACE1003092 | 9295 |
|    | PLACE1003100 | F-PLACE1003100 | 4317 | R-PLACE1003100 | 9296 |
| 30 | PLACE1003108 | F-PLACE1003108 | 4318 | R-PLACE1003108 | 9297 |
|    | PLACE1003136 | F-PLACE1003136 | 4319 | R-PLACE1003136 | 9298 |
|    | PLACE1003145 | F-PLACE1003145 | 4320 | R-PLACE1003145 | 9299 |
|    | PLACE1003153 | F-PLACE1003153 | 4321 | R-PLACE1003153 | 9300 |
| 35 | PLACE1003174 | F-PLACE1003174 | 4322 | R-PLACE1003174 | 9301 |
|    | PLACE1003176 | F-PLACE1003176 | 4323 | R-PLACE1003176 | 9302 |
|    | PLACE1003190 | F-PLACE1003190 | 4324 | R-PLACE1003190 | 9303 |
|    | PLACE1003200 | F-PLACE1003200 | 4325 | R-PLACE1003200 | 9304 |
|    | PLACE1003205 | F-PLACE1003205 | 4326 | R-PLACE1003205 | 9305 |
| 40 | PLACE1003238 | F-PLACE1003238 | 4327 | R-PLACE1003238 | 9306 |
|    | PLACE1003249 | F-PLACE1003249 | 4328 | R-PLACE1003249 | 9307 |
|    | PLACE1003256 | F-PLACE1003256 | 4329 | R-PLACE1003256 | 9308 |
|    | PLACE1003258 | F-PLACE1003258 | 4330 | R-PLACE1003258 | 9309 |
| 45 | PLACE1003296 | F-PLACE1003296 | 4331 | R-PLACE1003296 | 9310 |
|    | PLACE1003302 | F-PLACE1003302 | 4332 | R-PLACE1003302 | 9311 |
|    | PLACE1003334 | F-PLACE1003334 | 4333 | R-PLACE1003334 | 9312 |
|    | PLACE1003342 | F-PLACE1003342 | 4334 | R-PLACE1003342 | 9313 |
| 50 | PLACE1003343 | F-PLACE1003343 | 4335 | R-PLACE1003343 | 9314 |
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|    | PLACE1003361 | F-PLACE1003361 | 4337 | R-PLACE1003361 | 9316 |
|    | PLACE1003366 | F-PLACE1003366 | 4338 | R-PLACE1003366 | 9317 |
| 55 | PLACE1003369 | F-PLACE1003369 | 4339 | R-PLACE1003369 | 9318 |

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|    | PLACE1003373 | F-PLACE1003373 | 4340 | R-PLACE1003373  | 9319 |
|    | PLACE1003375 | F-PLACE1003375 | 4341 | R-PLACE1003375  | 9320 |
|    | PLACE1003383 | F-PLACE1003383 | 4342 | R-PLACE1003383  | 9321 |
| 5  | PLACE1003394 | F-PLACE1003394 | 4343 |                 |      |
|    | PLACE1003401 | F-PLACE1003401 | 4344 | R-PLACE1003401  | 9322 |
|    | PLACE1003420 | F-PLACE1003420 | 4345 | R-PLACE1003420  | 9323 |
|    | PLACE1003454 | F-PLACE1003454 | 4346 | R-PLACE1003454  | 9324 |
| 10 | PLACE1003478 | F-PLACE1003478 | 4347 | R-PLACE1003478  | 9325 |
|    | PLACE1003493 | F-PLACE1003493 | 4348 | R-PLACE1003493  | 9326 |
|    | PLACE1003516 | F-PLACE1003516 | 4349 | R-PLACE1003516  | 9327 |
|    | PLACE1003519 | F-PLACE1003519 | 4350 | R-PLACE1003519  | 9328 |
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|    | PLACE1003553 | F-PLACE1003553 | 4354 | R-PLACE1003553  | 9332 |
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|    | PLACE1003583 | F-PLACE1003583 | 4357 | R-PLACE1003583  | 9335 |
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|    | PLACE1003592 | F-PLACE1003592 | 4359 | R-PLACE1003592  | 9337 |
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|    | PLACE1003602 | F-PLACE1003602 | 4362 | R-PLACE1003602  | 9340 |
|    | PLACE1003605 | F-PLACE1003605 | 4363 | R-PLACE1003605  | 9341 |
| 30 | PLACE1003611 | F-PLACE1003611 | 4364 | R-nnnnnnnnnnnnn | 9342 |
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|    | PLACE1003669 | F-PLACE1003669 | 4368 | R-PLACE1003669  | 9346 |
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|    | PLACE1003711 | F-PLACE1003711 | 4371 | R-PLACE1003711  | 9349 |
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|    | PLACE1003768 | F-PLACE1003768 | 4376 | R-PLACE1003768  | 9354 |
| 45 | PLACE1003771 | F-PLACE1003771 | 4377 | R-PLACE1003771  | 9355 |
|    | PLACE1003783 | F-PLACE1003783 | 4378 | R-PLACE1003783  | 9356 |
|    | PLACE1003784 | F-PLACE1003784 | 4379 | R-PLACE1003784  | 9357 |
|    | PLACE1003795 | F-PLACE1003795 | 4380 | R-PLACE1003795  | 9358 |
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|    | PLACE1003850 | F-PLACE1003850 | 4382 | R-PLACE1003850  | 9360 |
|    | PLACE1003858 | F-PLACE1003858 | 4383 | R-PLACE1003858  | 9361 |
|    | PLACE1003864 | F-PLACE1003864 | 4384 | R-nnnnnnnnnnnnn | 9362 |
| 55 | PLACE1003870 | F-PLACE1003870 | 4385 | R-PLACE1003870  | 9363 |

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|    | PLACE1003886 | F-PLACE1003886 | 4387 | R-PLACE1003886  | 9365 |
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|    | PLACE1003903 | F-PLACE1003903 | 4391 | R-PLACE1003903  | 9368 |
|    | PLACE1003915 | F-PLACE1003915 | 4392 | R-PLACE1003915  | 9369 |
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|    | PLACE1003932 | F-PLACE1003932 | 4394 | R-PLACE1003932  | 9371 |
|    | PLACE1003936 | F-PLACE1003936 | 4395 | R-PLACE1003936  | 9372 |
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| 15 | PLACE1004103 | F-PLACE1004103 | 4397 |                 |      |
|    | PLACE1004104 | F-PLACE1004104 | 4398 | R-PLACE1004104  | 9374 |
|    | PLACE1004114 | F-PLACE1004114 | 4399 | R-PLACE1004114  | 9375 |
|    | PLACE1004118 | F-PLACE1004118 | 4400 | R-PLACE1004118  | 9376 |
|    | PLACE1004128 | F-PLACE1004128 | 4401 | R-PLACE1004128  | 9377 |
| 20 | PLACE1004149 | F-PLACE1004149 | 4402 | R-PLACE1004149  | 9378 |
|    | PLACE1004156 | F-PLACE1004156 | 4403 | R-PLACE1004156  | 9379 |
|    | PLACE1004161 | F-PLACE1004161 | 4404 | R-PLACE1004161  | 9380 |
|    | PLACE1004183 | F-PLACE1004183 | 4405 | R-PLACE1004183  | 9381 |
| 25 | PLACE1004197 | F-PLACE1004197 | 4406 | R-PLACE1004197  | 9382 |
|    | PLACE1004203 | F-PLACE1004203 | 4407 | R-PLACE1004203  | 9383 |
|    | PLACE1004242 | F-PLACE1004242 | 4408 | R-PLACE1004242  | 9384 |
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| 30 | PLACE1004257 | F-PLACE1004257 | 4410 | R-PLACE1004257  | 9386 |
|    | PLACE1004258 | F-PLACE1004258 | 4411 | R-PLACE1004258  | 9387 |
|    | PLACE1004270 | F-PLACE1004270 | 4412 | R-PLACE1004270  | 9388 |
|    | PLACE1004274 | F-PLACE1004274 | 4413 | R-PLACE1004274  | 9389 |
|    | PLACE1004277 | F-PLACE1004277 | 4414 | R-PLACE1004277  | 9390 |
| 35 | PLACE1004284 | F-PLACE1004284 | 4415 | R-PLACE1004284  | 9391 |
|    | PLACE1004289 | F-PLACE1004289 | 4416 | R-PLACE1004289  | 9392 |
|    | PLACE1004302 | F-PLACE1004302 | 4417 | R-PLACE1004302  | 9393 |
|    | PLACE1004316 | F-PLACE1004316 | 4418 | R-PLACE1004316  | 9394 |
| 40 | PLACE1004336 | F-PLACE1004336 | 4419 | R-PLACE1004336  | 9395 |
|    | PLACE1004358 | F-PLACE1004358 | 4420 | R-PLACE1004358  | 9396 |
|    | PLACE1004376 | F-PLACE1004376 | 4421 | R-PLACE1004376  | 9397 |
|    | PLACE1004384 | F-PLACE1004384 | 4422 | R-PLACE1004384  | 9398 |
| 45 | PLACE1004388 | F-PLACE1004388 | 4423 | R-PLACE1004388  | 9399 |
|    | PLACE1004405 | F-PLACE1004405 | 4424 | R-PLACE1004405  | 9400 |
|    | PLACE1004425 | F-PLACE1004425 | 4425 | R-PLACE1004425  | 9401 |
|    | PLACE1004428 | F-PLACE1004428 | 4426 | R-PLACE1004428  | 9402 |
|    | PLACE1004437 | F-PLACE1004437 | 4427 | R-PLACE1004437  | 9403 |
| 50 | PLACE1004451 | F-PLACE1004451 | 4428 | R-PLACE1004451  | 9404 |
|    | PLACE1004460 | F-PLACE1004460 | 4429 | R-PLACE1004460  | 9405 |
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|    | PLACE1004516 | F-PLACE1004516 | 4436 | R-PLACE1004516  | 9412 |
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| 15 | PLACE1004658 | F-PLACE1004658 | 4444 | R-PLACE1004658  | 9420 |
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|    | PLACE1004672 | F-PLACE1004672 | 4446 | R-PLACE1004672  | 9422 |
|    | PLACE1004674 | F-PLACE1004674 | 4447 | R-PLACE1004674  | 9423 |
| 20 | PLACE1004681 | F-PLACE1004681 | 4448 | R-PLACE1004681  | 9424 |
|    | PLACE1004686 | F-PLACE1004686 | 4449 | R-PLACE1004686  | 9425 |
|    | PLACE1004691 | F-PLACE1004691 | 4450 | R-PLACE1004691  | 9426 |
|    | PLACE1004693 | F-PLACE1004693 | 4451 | R-PLACE1004693  | 9427 |
| 25 | PLACE1004716 | F-PLACE1004716 | 4452 | R-PLACE1004716  | 9428 |
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|    | PLACE1004736 | F-PLACE1004736 | 4454 | R-PLACE1004736  | 9430 |
|    | PLACE1004740 | F-PLACE1004740 | 4455 | R-PLACE1004740  | 9431 |
| 30 | PLACE1004743 | F-PLACE1004743 | 4456 | R-nnnnnnnnnnnnn | 9432 |
|    | PLACE1004751 | F-PLACE1004751 | 4457 | R-PLACE1004751  | 9433 |
|    | PLACE1004773 | F-PLACE1004773 | 4458 | R-PLACE1004773  | 9434 |
|    | PLACE1004777 | F-PLACE1004777 | 4459 | R-PLACE1004777  | 9435 |
| 35 | PLACE1004793 | F-PLACE1004793 | 4460 | R-PLACE1004793  | 9436 |
|    | PLACE1004804 | F-PLACE1004804 | 4461 | R-nnnnnnnnnnnnn | 9437 |
|    | PLACE1004813 | F-PLACE1004813 | 4462 | R-PLACE1004813  | 9438 |
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|    | PLACE1004815 | F-PLACE1004815 | 4464 | R-PLACE1004815  | 9440 |
| 40 | PLACE1004824 | F-PLACE1004824 | 4465 | R-PLACE1004824  | 9441 |
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|    | PLACE1004836 | F-PLACE1004836 | 4467 | R-PLACE1004836  | 9443 |
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| 45 | PLACE1004840 | F-PLACE1004840 | 4469 | R-PLACE1004840  | 9445 |
|    | PLACE1004868 | F-PLACE1004868 | 4470 | R-PLACE1004868  | 9446 |
|    | PLACE1004885 | F-PLACE1004885 | 4471 | R-PLACE1004885  | 9447 |
|    | PLACE1004900 | F-PLACE1004900 | 4472 | R-PLACE1004900  | 9448 |
|    | PLACE1004902 | F-PLACE1004902 | 4473 | R-PLACE1004902  | 9449 |
| 50 | PLACE1004913 | F-PLACE1004913 | 4474 | R-nnnnnnnnnnnnn | 9450 |
|    | PLACE1004918 | F-PLACE1004918 | 4475 | R-PLACE1004918  | 9451 |
|    | PLACE1004930 | F-PLACE1004930 | 4476 | R-PLACE1004930  | 9452 |
|    | PLACE1004934 | F-PLACE1004934 | 4477 | R-PLACE1004934  | 9453 |
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|    | PLACE1004937 | F-PLACE1004937 | 4478 | R-PLACE1004937  | 9454 |
|    | PLACE1004969 | F-PLACE1004969 | 4479 | R-PLACE1004969  | 9455 |
|    | PLACE1004972 | F-PLACE1004972 | 4480 | R-PLACE1004972  | 9456 |
| 5  | PLACE1004979 | F-PLACE1004979 | 4481 | R-PLACE1004979  | 9457 |
|    | PLACE1004982 | F-PLACE1004982 | 4482 | R-PLACE1004982  | 9458 |
|    | PLACE1004985 | F-PLACE1004985 | 4483 | R-PLACE1004985  | 9459 |
|    | PLACE1005026 | F-PLACE1005026 | 4484 | R-PLACE1005026  | 9460 |
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|    | PLACE1005046 | F-PLACE1005046 | 4486 | R-PLACE1005046  | 9462 |
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|    | PLACE1005055 | F-PLACE1005055 | 4488 |                 |      |
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|    | PLACE1005077 | F-PLACE1005077 | 4490 | R-PLACE1005077  | 9465 |
|    | PLACE1005085 | F-PLACE1005085 | 4491 | R-PLACE1005085  | 9466 |
|    | PLACE1005086 | F-PLACE1005086 | 4492 | R-PLACE1005086  | 9467 |
|    | PLACE1005101 | F-PLACE1005101 | 4493 | R-PLACE1005101  | 9468 |
| 20 | PLACE1005102 | F-PLACE1005102 | 4494 | R-PLACE1005102  | 9469 |
|    | PLACE1005108 | F-PLACE1005108 | 4495 | R-PLACE1005108  | 9470 |
|    | PLACE1005111 | F-PLACE1005111 | 4496 | R-PLACE1005111  | 9471 |
|    | PLACE1005128 | F-PLACE1005128 | 4497 | R-PLACE1005128  | 9472 |
| 25 | PLACE1005146 | F-PLACE1005146 | 4498 | R-PLACE1005146  | 9473 |
|    | PLACE1005162 | F-PLACE1005162 | 4499 | R-PLACE1005162  | 9474 |
|    | PLACE1005176 | F-PLACE1005176 | 4500 | R-nnnnnnnnnnnnn | 9475 |
|    | PLACE1005181 | F-PLACE1005181 | 4501 | R-PLACE1005181  | 9476 |
| 30 | PLACE1005187 | F-PLACE1005187 | 4502 | R-PLACE1005187  | 9477 |
|    | PLACE1005206 | F-PLACE1005206 | 4503 | R-PLACE1005206  | 9478 |
|    | PLACE1005232 | F-PLACE1005232 | 4504 | R-PLACE1005232  | 9479 |
|    | PLACE1005243 | F-PLACE1005243 | 4505 | R-PLACE1005243  | 9480 |
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| 35 | PLACE1005266 | F-PLACE1005266 | 4507 | R-PLACE1005266  | 9482 |
|    | PLACE1005277 | F-PLACE1005277 | 4508 | R-PLACE1005277  | 9483 |
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|    | PLACE1005305 | F-PLACE1005305 | 4510 | R-PLACE1005305  | 9485 |
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|    | PLACE1005327 | F-PLACE1005327 | 4513 | R-PLACE1005327  | 9488 |
|    | PLACE1005331 | F-PLACE1005331 | 4514 | R-PLACE1005331  | 9489 |
| 45 | PLACE1005335 | F-PLACE1005335 | 4515 | R-PLACE1005335  | 9490 |
|    | PLACE1005373 | F-PLACE1005373 | 4516 | R-PLACE1005373  | 9491 |
|    | PLACE1005374 | F-PLACE1005374 | 4517 | R-PLACE1005374  | 9492 |
|    | PLACE1005409 | F-PLACE1005409 | 4518 | R-PLACE1005409  | 9493 |
|    | PLACE1005453 | F-PLACE1005453 | 4519 | R-PLACE1005453  | 9494 |
| 50 | PLACE1005467 | F-PLACE1005467 | 4520 | R-PLACE1005467  | 9495 |
|    | PLACE1005471 | F-PLACE1005471 | 4521 | R-PLACE1005471  | 9496 |
|    | PLACE1005477 | F-PLACE1005477 | 4522 | R-PLACE1005477  | 9497 |
|    | PLACE1005480 | F-PLACE1005480 | 4523 | R-PLACE1005480  | 9498 |
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|    | PLACE1005502 | F-PLACE1005502 | 4526 | R-PLACE1005502 | 9501 |
| 5  | PLACE1005526 | F-PLACE1005526 | 4527 | R-PLACE1005526 | 9502 |
|    | PLACE1005528 | F-PLACE1005528 | 4528 | R-PLACE1005528 | 9503 |
|    | PLACE1005530 | F-PLACE1005530 | 4529 | R-PLACE1005530 | 9504 |
|    | PLACE1005550 | F-PLACE1005550 | 4530 | R-PLACE1005550 | 9505 |
| 10 | PLACE1005554 | F-PLACE1005554 | 4531 | R-PLACE1005554 | 9506 |
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|    | PLACE1005584 | F-PLACE1005584 | 4534 | R-PLACE1005584 | 9509 |
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|    | PLACE1005646 | F-PLACE1005646 | 4541 | R-PLACE1005646 | 9516 |
|    | PLACE1005656 | F-PLACE1005656 | 4542 | R-PLACE1005656 | 9517 |
|    | PLACE1005666 | F-PLACE1005666 | 4543 | R-PLACE1005666 | 9518 |
| 25 | PLACE1005698 | F-PLACE1005698 | 4544 | R-PLACE1005698 | 9519 |
|    | PLACE1005727 | F-PLACE1005727 | 4545 | R-PLACE1005727 | 9520 |
|    | PLACE1005730 | F-PLACE1005730 | 4546 | R-PLACE1005730 | 9521 |
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| 30 | PLACE1005755 | F-PLACE1005755 | 4548 | R-PLACE1005755 | 9523 |
|    | PLACE1005763 | F-PLACE1005763 | 4549 | R-PLACE1005763 | 9524 |
|    | PLACE1005799 | F-PLACE1005799 | 4550 | R-PLACE1005799 | 9525 |
|    | PLACE1005802 | F-PLACE1005802 | 4551 | R-PLACE1005802 | 9526 |
| 35 | PLACE1005803 | F-PLACE1005803 | 4552 | R-PLACE1005803 | 9527 |
|    | PLACE1005804 | F-PLACE1005804 | 4553 | R-PLACE1005804 | 9528 |
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|    | PLACE1005851 | F-PLACE1005851 | 4559 | R-PLACE1005851 | 9533 |
|    | PLACE1005876 | F-PLACE1005876 | 4560 | R-PLACE1005876 | 9534 |
| 45 | PLACE1005884 | F-PLACE1005884 | 4561 | R-PLACE1005884 | 9535 |
|    | PLACE1005890 | F-PLACE1005890 | 4562 |                |      |
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|    | PLACE1005923 | F-PLACE1005923 | 4565 | R-PLACE1005923 | 9538 |
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|    | PLACE1005936 | F-PLACE1005936 | 4569 | R-PLACE1005936 | 9542 |
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|    | PLACE1005953  | F-PLACE1005953 | 4571 | R-PLACE1005953  | 9544 |
|    | PLACE1005955  | F-PLACE1005955 | 4572 | R-PLACE1005955  | 9545 |
| 5  | PLACE1005966  | F-PLACE1005966 | 4573 | R-PLACE1005966  | 9546 |
|    | PLACE1005968  | F-PLACE1005968 | 4574 | R-PLACE1005968  | 9547 |
|    | PLACE1005990  | F-PLACE1005990 | 4575 | R-PLACE1005990  | 9548 |
|    | PLACE1006002  | F-PLACE1006002 | 4576 | R-PLACE1006002  | 9549 |
| 10 | PLACE1006003  | F-PLACE1006003 | 4577 | R-PLACE1006003  | 9550 |
|    | PLACE1006011  | F-PLACE1006011 | 4578 | R-PLACE1006011  | 9551 |
|    | PLACE1006017  | F-PLACE1006017 | 4579 | R-PLACE1006017  | 9552 |
|    | PLACE1006037  | F-PLACE1006037 | 4580 | R-PLACE1006037  | 9553 |
| 15 | PLACE1006040  | F-PLACE1006040 | 4581 | R-PLACE1006040  | 9554 |
|    | PLACE1006076  | F-PLACE1006076 | 4582 | R-PLACE1006076  | 9555 |
|    | PLACE1006119  | F-PLACE1006119 | 4583 | R-PLACE1006119  | 9556 |
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|    | PLACE1006143  | F-PLACE1006143 | 4586 | R-PLACE1006143  | 9559 |
|    | PLACE1006157  | F-PLACE1006157 | 4587 | R-PLACE1006157  | 9560 |
|    | PLACE1006159  | F-PLACE1006159 | 4588 | R-PLACE1006159  | 9561 |
|    | PLACE1006164  | F-PLACE1006164 | 4589 | R-PLACE1006164  | 9562 |
| 25 | PLACE1006167  | F-PLACE1006167 | 4590 | R-PLACE1006167  | 9563 |
|    | PLACE1006170  | F-PLACE1006170 | 4591 | R-nnnnnnnnnnnnn | 9564 |
|    | PLACE1006187  | F-PLACE1006187 | 4592 | R-PLACE1006187  | 9565 |
|    | PLACE1006195  | F-PLACE1006195 | 4593 | R-PLACE1006195  | 9566 |
| 30 | PLACE1006196  | F-PLACE1006196 | 4594 | R-PLACE1006196  | 9567 |
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|    | PLACE1006223  | F-PLACE1006223 | 4596 | R-PLACE1006223  | 9569 |
|    | PLACE1006225  | F-PLACE1006225 | 4597 | R-PLACE1006225  | 9570 |
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|    | PLACE1006246  | F-PLACE1006246 | 4600 | R-PLACE1006246  | 9573 |
|    | PLACE1006248  | F-PLACE1006248 | 4601 | R-PLACE1006248  | 9574 |
| 40 | PLACE1006262  | F-PLACE1006262 | 4602 | R-PLACE1006262  | 9575 |
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|    | PLACE1006325  | F-PLACE1006325 | 4605 | R-PLACE1006325  | 9578 |
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| 45 | PLACE1006357  | F-PLACE1006357 | 4607 | R-PLACE1006357  | 9580 |
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|    | PLACE1006368  | F-PLACE1006368 | 4609 | R-PLACE1006368  | 9582 |
|    | PLACE1006371  | F-PLACE1006371 | 4610 | R-PLACE1006371  | 9583 |
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|    | PLACE1006412  | F-PLACE1006412 | 4613 | R-PLACE1006412  | 9586 |
|    | PLACE1006414  | F-PLACE1006414 | 4614 | R-PLACE1006414  | 9587 |
| 55 | PLACE1006438  | F-PLACE1006438 | 4615 | R-PLACE1006438  | 9588 |

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|    | PLACE1006469 | F-PLACE1006469 | 4617 | R-PLACE1006469  | 9590 |
|    | PLACE1006470 | F-PLACE1006470 | 4618 | R-PLACE1006470  | 9591 |
| 5  | PLACE1006482 | F-PLACE1006482 | 4619 | R-PLACE1006482  | 9592 |
|    | PLACE1006488 | F-PLACE1006488 | 4620 |                 |      |
|    | PLACE1006492 | F-PLACE1006492 | 4621 | R-PLACE1006492  | 9593 |
|    | PLACE1006506 | F-PLACE1006506 | 4622 | R-PLACE1006506  | 9594 |
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|    | PLACE1006531 | F-PLACE1006531 | 4624 | R-PLACE1006531  | 9596 |
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|    | PLACE1006629 | F-PLACE1006629 | 4632 | R-PLACE1006629  | 9604 |
|    | PLACE1006640 | F-PLACE1006640 | 4633 | R-PLACE1006640  | 9605 |
|    | PLACE1006673 | F-PLACE1006673 | 4634 | R-PLACE1006673  | 9606 |
|    | PLACE1006678 | F-PLACE1006678 | 4635 | R-PLACE1006678  | 9607 |
| 25 | PLACE1006704 | F-PLACE1006704 | 4636 | R-PLACE1006704  | 9608 |
|    | PLACE1006731 | F-PLACE1006731 | 4637 | R-PLACE1006731  | 9609 |
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| 30 | PLACE1006779 | F-PLACE1006779 | 4640 | R-PLACE1006779  | 9612 |
|    | PLACE1006782 | F-PLACE1006782 | 4641 | R-PLACE1006782  | 9613 |
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|    | PLACE1006805 | F-PLACE1006805 | 4645 | R-PLACE1006805  | 9617 |
|    | PLACE1006815 | F-PLACE1006815 | 4646 | R-PLACE1006815  | 9618 |
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|    | PLACE1006867 | F-PLACE1006867 | 4650 | R-PLACE1006867  | 9622 |
|    | PLACE1006878 | F-PLACE1006878 | 4651 | R-PLACE1006878  | 9623 |
| 45 | PLACE1006883 | F-PLACE1006883 | 4652 | R-PLACE1006883  | 9624 |
|    | PLACE1006901 | F-PLACE1006901 | 4653 | R-nnnnnnnnnnnnn | 9625 |
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|    | PLACE1006917 | F-PLACE1006917 | 4655 | R-PLACE1006917  | 9627 |
|    | PLACE1006932 | F-PLACE1006932 | 4656 | R-PLACE1006932  | 9628 |
| 50 | PLACE1006935 | F-PLACE1006935 | 4657 | R-PLACE1006935  | 9629 |
|    | PLACE1006956 | F-PLACE1006956 | 4658 |                 |      |
|    | PLACE1006958 | F-PLACE1006958 | 4659 | R-nnnnnnnnnnnnn | 9630 |
|    | PLACE1006961 | F-PLACE1006961 | 4660 | R-PLACE1006961  | 9631 |
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|    | PLACE1007014 | F-PLACE1007014 | 4664 | R-PLACE1007014 | 9635 |
| 5  | PLACE1007021 | F-PLACE1007021 | 4665 | R-PLACE1007021 | 9636 |
|    | PLACE1007045 | F-PLACE1007045 | 4666 | R-PLACE1007045 | 9637 |
|    | PLACE1007053 | F-PLACE1007053 | 4667 | R-PLACE1007053 | 9638 |
|    | PLACE1007068 | F-PLACE1007068 | 4668 |                |      |
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|    | PLACE1007112 | F-PLACE1007112 | 4672 | R-PLACE1007112 | 9642 |
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|    | PLACE1007140 | F-PLACE1007140 | 4674 | R-PLACE1007140 | 9644 |
|    | PLACE1007178 | F-PLACE1007178 | 4675 | R-PLACE1007178 | 9645 |
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|    | PLACE1007242 | F-PLACE1007242 | 4679 | R-PLACE1007242 | 9649 |
|    | PLACE1007243 | F-PLACE1007243 | 4680 | R-PLACE1007243 | 9650 |
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|    | PLACE1007274 | F-PLACE1007274 | 4682 | R-PLACE1007274 | 9652 |
|    | PLACE1007276 | F-PLACE1007276 | 4683 | R-PLACE1007276 | 9653 |
|    | PLACE1007282 | F-PLACE1007282 | 4684 | R-PLACE1007282 | 9654 |
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| 30 | PLACE1007301 | F-PLACE1007301 | 4686 | R-PLACE1007301 | 9656 |
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|    | PLACE1007375 | F-PLACE1007375 | 4691 | R-PLACE1007375 | 9661 |
|    | PLACE1007386 | F-PLACE1007386 | 4692 | R-PLACE1007386 | 9662 |
|    | PLACE1007402 | F-PLACE1007402 | 4693 | R-PLACE1007402 | 9663 |
| 40 | PLACE1007409 | F-PLACE1007409 | 4694 | R-PLACE1007409 | 9664 |
|    | PLACE1007416 | F-PLACE1007416 | 4695 | R-PLACE1007416 | 9665 |
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|    | PLACE1007452 | F-PLACE1007452 | 4697 | R-PLACE1007452 | 9667 |
|    | PLACE1007454 | F-PLACE1007454 | 4698 |                |      |
| 45 | PLACE1007460 | F-PLACE1007460 | 4699 | R-PLACE1007460 | 9668 |
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| 50 | PLACE1007507 | F-PLACE1007507 | 4703 | R-PLACE1007507 | 9672 |
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| 55 | PLACE1007537 | F-PLACE1007537 | 4707 |                |      |

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|    | PLACE1007618 | F-PLACE1007618 | 4713 | R-PLACE1007618 | 9681 |
|    | PLACE1007621 | F-PLACE1007621 | 4714 | R-PLACE1007621 | 9682 |
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|    | PLACE1007729 | F-PLACE1007729 | 4725 | R-PLACE1007729 | 9693 |
|    | PLACE1007730 | F-PLACE1007730 | 4726 | R-PLACE1007730 | 9694 |
|    | PLACE1007737 | F-PLACE1007737 | 4727 | R-PLACE1007737 | 9695 |
| 25 | PLACE1007743 | F-PLACE1007743 | 4728 | R-PLACE1007743 | 9696 |
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|    | PLACE1007791 | F-PLACE1007791 | 4730 | R-PLACE1007791 | 9698 |
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|    | PLACE1007843 | F-PLACE1007843 | 4734 | R-PLACE1007843 | 9702 |
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|    | PLACE1007858 | F-PLACE1007858 | 4737 | R-PLACE1007858 | 9705 |
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| 40 | PLACE1007897 | F-PLACE1007897 | 4740 | R-PLACE1007897 | 9708 |
|    | PLACE1007908 | F-PLACE1007908 | 4741 | R-PLACE1007908 | 9709 |
|    | PLACE1007946 | F-PLACE1007946 | 4742 | R-PLACE1007946 | 9710 |
|    | PLACE1007954 | F-PLACE1007954 | 4743 | R-PLACE1007954 | 9711 |
| 45 | PLACE1007955 | F-PLACE1007955 | 4744 | R-PLACE1007955 | 9712 |
|    | PLACE1007958 | F-PLACE1007958 | 4745 | R-PLACE1007958 | 9713 |
|    | PLACE1007969 | F-PLACE1007969 | 4746 | R-PLACE1007969 | 9714 |
|    | PLACE1007990 | F-PLACE1007990 | 4747 | R-PLACE1007990 | 9715 |
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|    | PLACE1008044 | F-PLACE1008044 | 4750 | R-PLACE1008044 | 9718 |
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|    | PLACE1008122 | F-PLACE1008122 | 4755 | R-PLACE1008122  | 9723 |
| 5  | PLACE1008129 | F-PLACE1008129 | 4756 | R-PLACE1008129  | 9724 |
|    | PLACE1008132 | F-PLACE1008132 | 4757 | R-PLACE1008132  | 9725 |
|    | PLACE1008177 | F-PLACE1008177 | 4758 | R-PLACE1008177  | 9726 |
|    | PLACE1008181 | F-PLACE1008181 | 4759 | R-PLACE1008181  | 9727 |
|    | PLACE1008198 | F-PLACE1008198 | 4760 | R-PLACE1008198  | 9728 |
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|    | PLACE1008209 | F-PLACE1008209 | 4762 | R-PLACE1008209  | 9730 |
|    | PLACE1008231 | F-PLACE1008231 | 4763 | R-PLACE1008231  | 9731 |
|    | PLACE1008244 | F-PLACE1008244 | 4764 | R-PLACE1008244  | 9732 |
| 15 | PLACE1008273 | F-PLACE1008273 | 4765 | R-PLACE1008273  | 9733 |
|    | PLACE1008275 | F-PLACE1008275 | 4766 | R-nnnnnnnnnnnnn | 9734 |
|    | PLACE1008280 | F-PLACE1008280 | 4767 | R-PLACE1008280  | 9735 |
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|    | PLACE1008330 | F-PLACE1008330 | 4770 | R-PLACE1008330  | 9738 |
|    | PLACE1008331 | F-PLACE1008331 | 4771 | R-PLACE1008331  | 9739 |
|    | PLACE1008356 | F-PLACE1008356 | 4772 | R-PLACE1008356  | 9740 |
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|    | PLACE1008369 | F-PLACE1008369 | 4774 | R-PLACE1008369  | 9742 |
|    | PLACE1008392 | F-PLACE1008392 | 4775 | R-PLACE1008392  | 9743 |
|    | PLACE1008398 | F-PLACE1008398 | 4776 | R-PLACE1008398  | 9744 |
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|    | PLACE1008424 | F-PLACE1008424 | 4780 | R-PLACE1008424  | 9748 |
|    | PLACE1008426 | F-PLACE1008426 | 4781 | R-PLACE1008426  | 9749 |
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|    | PLACE1008437 | F-PLACE1008437 | 4783 | R-PLACE1008437  | 9751 |
|    | PLACE1008455 | F-PLACE1008455 | 4784 | R-PLACE1008455  | 9752 |
|    | PLACE1008457 | F-PLACE1008457 | 4785 | R-PLACE1008457  | 9753 |
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|    | PLACE1008524 | F-PLACE1008524 | 4788 | R-PLACE1008524  | 9756 |
|    | PLACE1008531 | F-PLACE1008531 | 4789 | R-PLACE1008531  | 9757 |
| 45 | PLACE1008532 | F-PLACE1008532 | 4790 | R-PLACE1008532  | 9758 |
|    | PLACE1008533 | F-PLACE1008533 | 4791 | R-PLACE1008533  | 9759 |
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|    | PLACE1008627 | F-PLACE1008627 | 4798 | R-PLACE1008627  | 9765 |
| 55 | PLACE1008629 | F-PLACE1008629 | 4799 | R-PLACE1008629  | 9766 |



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| 5  | PLACE1008693 | F-PLACE1008693 | 4803 | R-PLACE1008693  | 9770 |
|    | PLACE1008696 | F-PLACE1008696 | 4804 | R-PLACE1008696  | 9771 |
|    | PLACE1008715 | F-PLACE1008715 | 4805 | R-PLACE1008715  | 9772 |
|    | PLACE1008748 | F-PLACE1008748 | 4806 | R-PLACE1008748  | 9773 |
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|    | PLACE1008902 | F-PLACE1008902 | 4817 | R-PLACE1008902  | 9784 |
|    | PLACE1008920 | F-PLACE1008920 | 4818 | R-PLACE1008920  | 9785 |
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|    | PLACE1009020 | F-PLACE1009020 | 4823 | R-PLACE1009020  | 9790 |
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|    | PLACE1009048 | F-PLACE1009048 | 4827 | R-PLACE1009048  | 9794 |
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|    | PLACE1009090 | F-PLACE1009090 | 4830 | R-PLACE1009090  | 9797 |
|    | PLACE1009091 | F-PLACE1009091 | 4831 |                 |      |
|    | PLACE1009094 | F-PLACE1009094 | 4832 | R-PLACE1009094  | 9798 |
| 40 | PLACE1009099 | F-PLACE1009099 | 4833 | R-PLACE1009099  | 9799 |
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|    | PLACE1010362 | F-PLACE1010362 | 4935 | R-PLACE1010362  | 9896 |
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|    | PLACE1011567 | F-PLACE1011567 | 5028 | R-PLACE1011567  | 9985 |
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|    | PLACE1011964 | F-PLACE1011964 | 5055 | R-PLACE1011964 | 10011 |
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|    | PLACE2000015 | F-PLACE2000015 | 5064 | R-PLACE2000015 | 10018 |
|    | PLACE2000017 | F-PLACE2000017 | 5065 | R-PLACE2000017 | 10019 |
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|    | PLACE2000132 | F-PLACE2000132 | 5082 | R-PLACE2000132 | 10034 |
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| 20 | PLACE2000223 | F-PLACE2000223 | 5091 | R-PLACE2000223 | 10043 |
|    | PLACE2000235 | F-PLACE2000235 | 5092 | R-PLACE2000235 | 10044 |
|    | PLACE2000246 | F-PLACE2000246 | 5093 | R-PLACE2000246 | 10045 |
|    | PLACE2000264 | F-PLACE2000264 | 5094 | R-PLACE2000264 | 10046 |
|    | PLACE2000274 | F-PLACE2000274 | 5095 | R-PLACE2000274 | 10047 |
| 25 | PLACE2000302 | F-PLACE2000302 | 5096 | R-PLACE2000302 | 10048 |
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| 30 | PLACE2000341 | F-PLACE2000341 | 5100 |                |       |
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|    | PLACE2000347 | F-PLACE2000347 | 5102 | R-PLACE2000347 | 10053 |
|    | PLACE2000359 | F-PLACE2000359 | 5103 | R-PLACE2000359 | 10054 |
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|    | PLACE3000009 | F-PLACE3000009 | 5125 |                |       |
|    | PLACE3000020 | F-PLACE3000020 | 5126 |                |       |
|    | PLACE3000029 | F-PLACE3000029 | 5127 | R-PLACE3000029 | 10076 |
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|    | PLACE3000119 | F-PLACE3000119 | 5131 | R-PLACE3000119 | 10080 |
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| 15 | PLACE3000124 | F-PLACE3000124 | 5133 | R-PLACE3000124 | 10081 |
|    | PLACE3000136 | F-PLACE3000136 | 5134 | R-PLACE3000136 | 10082 |
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| 20 | PLACE3000147 | F-PLACE3000147 | 5137 | R-PLACE3000147 | 10084 |
|    | PLACE3000148 | F-PLACE3000148 | 5138 | R-PLACE3000148 | 10085 |
|    | PLACE3000155 | F-PLACE3000155 | 5139 | R-PLACE3000155 | 10086 |
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| 25 | PLACE3000157 | F-PLACE3000157 | 5141 | R-PLACE3000157 | 10088 |
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|    | PLACE3000160 | F-PLACE3000160 | 5143 | R-PLACE3000160 | 10090 |
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| 30 | PLACE3000197 | F-PLACE3000197 | 5146 | R-PLACE3000197 | 10093 |
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|    | PLACE3000207 | F-PLACE3000207 | 5148 | R-PLACE3000207 | 10095 |
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|    | PLACE3000221 | F-PLACE3000221 | 5152 |                |       |
|    | PLACE3000226 | F-PLACE3000226 | 5153 | R-PLACE3000226 | 10099 |
| 40 | PLACE3000230 | F-PLACE3000230 | 5154 | R-PLACE3000230 | 10100 |
|    | PLACE3000242 | F-PLACE3000242 | 5155 | R-PLACE3000242 | 10101 |
|    | PLACE3000244 | F-PLACE3000244 | 5156 | R-PLACE3000244 | 10102 |
|    | PLACE3000254 | F-PLACE3000254 | 5157 | R-PLACE3000254 | 10103 |
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| 45 | PLACE3000276 | F-PLACE3000276 | 5159 | R-PLACE3000276 | 10105 |
|    | PLACE3000304 | F-PLACE3000304 | 5160 | R-PLACE3000304 | 10106 |
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| 50 | PLACE3000322 | F-PLACE3000322 | 5163 | R-PLACE3000322 | 10109 |
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|    | PLACE3000362 | F-PLACE3000362 | 5170 | R-PLACE3000362 | 10116 |
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|    | PLACE3000365 | F-PLACE3000365 | 5172 | R-PLACE3000365 | 10118 |
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|    | PLACE3000413 | F-PLACE3000413 | 5181 | R-PLACE3000413 | 10127 |
|    | PLACE3000416 | F-PLACE3000416 | 5182 | R-PLACE3000416 | 10128 |
| 20 | PLACE3000425 | F-PLACE3000425 | 5183 | R-PLACE3000425 | 10129 |
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|    | PLACE4000014 | F-PLACE4000014 | 5188 | R-PLACE4000014 | 10134 |
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|    | PLACE4000049 | F-PLACE4000049 | 5190 | R-PLACE4000049 | 10136 |
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|    | PLACE4000093 | F-PLACE4000093 | 5194 | R-PLACE4000093 | 10140 |
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|    | PLACE4000129 | F-PLACE4000129 | 5198 | R-PLACE4000129 | 10144 |
|    | PLACE4000131 | F-PLACE4000131 | 5199 |                |       |
| 40 | PLACE4000147 | F-PLACE4000147 | 5200 | R-PLACE4000147 | 10145 |
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| 45 | PLACE4000222 | F-PLACE4000222 | 5204 | R-PLACE4000222 | 10148 |
|    | PLACE4000230 | F-PLACE4000230 | 5205 |                |       |
|    | PLACE4000233 | F-PLACE4000233 | 5206 | R-PLACE4000233 | 10149 |
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|    | PLACE4000259 | F-PLACE4000259 | 5210 |                |       |
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|    | PLACE4000323 | F-PLACE4000323 | 5216 | R-PLACE4000323 | 10158 |
| 5  | PLACE4000326 | F-PLACE4000326 | 5217 | R-PLACE4000326 | 10159 |
|    | PLACE4000344 | F-PLACE4000344 | 5218 | R-PLACE4000344 | 10160 |
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|    | PLACE4000521 | F-PLACE4000521 | 5233 |                |       |
| 25 | PLACE4000522 | F-PLACE4000522 | 5234 | R-PLACE4000522 | 10172 |
|    | PLACE4000548 | F-PLACE4000548 | 5235 | R-PLACE4000548 | 10173 |
|    | PLACE4000558 | F-PLACE4000558 | 5236 | R-PLACE4000558 | 10174 |
|    | PLACE4000581 | F-PLACE4000581 | 5237 |                |       |
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|    | PLACE4000612 | F-PLACE4000612 | 5240 |                |       |
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| 40 | SKNMC1000013 | F-SKNMC1000013 | 5246 |                |       |
|    | SKNMC1000046 | F-SKNMC1000046 | 5247 |                |       |
|    | SKNMC1000050 | F-SKNMC1000050 | 5248 |                |       |
|    | SKNMC1000091 | F-SKNMC1000091 | 5249 |                |       |
|    | THYRO1000017 | F-THYRO1000017 | 5250 |                |       |
| 45 | THYRO1000026 | F-THYRO1000026 | 5251 | R-THYRO1000026 | 10175 |
|    | THYRO1000034 | F-THYRO1000034 | 5252 | R-THYRO1000034 | 10176 |
|    | THYRO1000035 | F-THYRO1000035 | 5253 | R-THYRO1000035 | 10177 |
|    | THYRO1000040 | F-THYRO1000040 | 5254 | R-THYRO1000040 | 10178 |
| 50 | THYRO1000070 | F-THYRO1000070 | 5255 | R-THYRO1000070 | 10179 |
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|    | THYRO1000085 | F-THYRO1000085 | 5257 | R-THYRO1000085 | 10181 |
|    | THYRO1000092 | F-THYRO1000092 | 5258 | R-THYRO1000092 | 10182 |
| 55 | THYRO1000107 | F-THYRO1000107 | 5259 | R-THYRO1000107 | 10183 |

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|    | THYRO1000121 | F-THYRO1000121 | 5261 | R-THYRO1000121  | 10185 |
|    | THYRO1000124 | F-THYRO1000124 | 5262 | R-THYRO1000124  | 10186 |
| 5  | THYRO1000129 | F-THYRO1000129 | 5263 | R-THYRO1000129  | 10187 |
|    | THYRO1000132 | F-THYRO1000132 | 5264 | R-THYRO1000132  | 10188 |
|    | THYRO1000156 | F-THYRO1000156 | 5265 | R-THYRO1000156  | 10189 |
|    | THYRO1000163 | F-THYRO1000163 | 5266 | R-THYRO1000163  | 10190 |
| 10 | THYRO1000173 | F-THYRO1000173 | 5267 | R-THYRO1000173  | 10191 |
|    | THYRO1000186 | F-THYRO1000186 | 5268 | R-THYRO1000186  | 10192 |
|    | THYRO1000187 | F-THYRO1000187 | 5269 | R-THYRO1000187  | 10193 |
|    | THYRO1000190 | F-THYRO1000190 | 5270 | R-THYRO1000190  | 10194 |
| 15 | THYRO1000197 | F-THYRO1000197 | 5271 | R-THYRO1000197  | 10195 |
|    | THYRO1000199 | F-THYRO1000199 | 5272 | R-THYRO1000199  | 10196 |
|    | THYRO1000206 | F-THYRO1000206 | 5273 | R-THYRO1000206  | 10197 |
|    | THYRO1000221 | F-THYRO1000221 | 5274 | R-THYRO1000221  | 10198 |
| 20 | THYRO1000241 | F-THYRO1000241 | 5275 | R-THYRO1000241  | 10199 |
|    | THYRO1000242 | F-THYRO1000242 | 5276 | R-THYRO1000242  | 10200 |
|    | THYRO1000253 | F-THYRO1000253 | 5277 | R-THYRO1000253  | 10201 |
|    | THYRO1000270 | F-THYRO1000270 | 5278 | R-THYRO1000270  | 10202 |
| 25 | THYRO1000279 | F-THYRO1000279 | 5279 | R-THYRO1000279  | 10203 |
|    | THYRO1000288 | F-THYRO1000288 | 5280 | R-THYRO1000288  | 10204 |
|    | THYRO1000320 | F-THYRO1000320 | 5281 | R-THYRO1000320  | 10205 |
|    | THYRO1000327 | F-THYRO1000327 | 5282 | R-THYRO1000327  | 10206 |
|    | THYRO1000343 | F-THYRO1000343 | 5283 | R-THYRO1000343  | 10207 |
| 30 | THYRO1000358 | F-THYRO1000358 | 5284 | R-THYRO1000358  | 10208 |
|    | THYRO1000368 | F-THYRO1000368 | 5285 | R-THYRO1000368  | 10209 |
|    | THYRO1000381 | F-THYRO1000381 | 5286 | R-nnnnnnnnnnnnn | 10210 |
|    | THYRO1000387 | F-THYRO1000387 | 5287 | R-THYRO1000387  | 10211 |
| 35 | THYRO1000394 | F-THYRO1000394 | 5288 | R-THYRO1000394  | 10212 |
|    | THYRO1000395 | F-THYRO1000395 | 5289 | R-THYRO1000395  | 10213 |
|    | THYRO1000401 | F-THYRO1000401 | 5290 | R-THYRO1000401  | 10214 |
|    | THYRO1000438 | F-THYRO1000438 | 5291 | R-THYRO1000438  | 10215 |
| 40 | THYRO1000452 | F-THYRO1000452 | 5292 | R-THYRO1000452  | 10216 |
|    | THYRO1000471 | F-THYRO1000471 | 5293 | R-THYRO1000471  | 10217 |
|    | THYRO1000484 | F-THYRO1000484 | 5294 | R-THYRO1000484  | 10218 |
|    | THYRO1000488 | F-THYRO1000488 | 5295 | R-THYRO1000488  | 10219 |
| 45 | THYRO1000501 | F-THYRO1000501 | 5296 | R-THYRO1000501  | 10220 |
|    | THYRO1000502 | F-THYRO1000502 | 5297 | R-THYRO1000502  | 10221 |
|    | THYRO1000505 | F-THYRO1000505 | 5298 | R-THYRO1000505  | 10222 |
|    | THYRO1000558 | F-THYRO1000558 | 5299 | R-THYRO1000558  | 10223 |
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|    | THYRO1000570 | F-THYRO1000570 | 5301 | R-THYRO1000570  | 10225 |
|    | THYRO1000585 | F-THYRO1000585 | 5302 | R-nnnnnnnnnnnnn | 10226 |
|    | THYRO1000596 | F-THYRO1000596 | 5303 | R-THYRO1000596  | 10227 |
|    | THYRO1000602 | F-THYRO1000602 | 5304 | R-THYRO1000602  | 10228 |
| 55 | THYRO1000605 | F-THYRO1000605 | 5305 | R-THYRO1000605  | 10229 |

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|    | THYRO1000625 | F-THYRO1000625 | 5306 | R-THYRO1000625  | 10230 |
|    | THYRO1000637 | F-THYRO1000637 | 5307 | R-THYRO1000637  | 10231 |
|    | THYRO1000641 | F-THYRO1000641 | 5308 | R-THYRO1000641  | 10232 |
| 5  | THYRO1000658 | F-THYRO1000658 | 5309 | R-THYRO1000658  | 10233 |
|    | THYRO1000662 | F-THYRO1000662 | 5310 | R-nnnnnnnnnnnnn | 10234 |
|    | THYRO1000666 | F-THYRO1000666 | 5311 | R-THYRO1000666  | 10235 |
|    | THYRO1000676 | F-THYRO1000676 | 5312 | R-THYRO1000676  | 10236 |
| 10 | THYRO1000684 | F-THYRO1000684 | 5313 | R-THYRO1000684  | 10237 |
|    | THYRO1000699 | F-THYRO1000699 | 5314 | R-THYRO1000699  | 10238 |
|    | THYRO1000712 | F-THYRO1000712 | 5315 | R-THYRO1000712  | 10239 |
|    | THYRO1000715 | F-THYRO1000715 | 5316 |                 |       |
| 15 | THYRO1000734 | F-THYRO1000734 | 5317 | R-THYRO1000734  | 10240 |
|    | THYRO1000748 | F-THYRO1000748 | 5318 | R-THYRO1000748  | 10241 |
|    | THYRO1000756 | F-THYRO1000756 | 5319 | R-THYRO1000756  | 10242 |
|    | THYRO1000777 | F-THYRO1000777 | 5320 | R-THYRO1000777  | 10243 |
| 20 | THYRO1000783 | F-THYRO1000783 | 5321 | R-THYRO1000783  | 10244 |
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|    | THYRO1000974 | F-THYRO1000974 | 5338 | R-THYRO1000974  | 10261 |
| 40 | THYRO1000975 | F-THYRO1000975 | 5339 | R-THYRO1000975  | 10262 |
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|    | THYRO1001062 | F-THYRO1001062 | 5346 | R-THYRO1001062  | 10269 |
| 50 | THYRO1001093 | F-THYRO1001093 | 5347 | R-THYRO1001093  | 10270 |
|    | THYRO1001100 | F-THYRO1001100 | 5348 | R-THYRO1001100  | 10271 |
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|    | THYRO1001121 | F-THYRO1001121 | 5350 | R-THYRO1001121  | 10273 |
| 55 | THYRO1001133 | F-THYRO1001133 | 5351 | R-THYRO1001133  | 10274 |

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|    | THYRO1001142 | F-THYRO1001142 | 5353 | R-THYRO1001142  | 10276 |
|    | THYRO1001173 | F-THYRO1001173 | 5354 | R-THYRO1001173  | 10277 |
| 5  | THYRO1001177 | F-THYRO1001177 | 5355 | R-THYRO1001177  | 10278 |
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|    | THYRO1001204 | F-THYRO1001204 | 5357 | R-THYRO1001204  | 10280 |
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|    | THYRO1001411 | F-THYRO1001411 | 5375 | R-THYRO1001411  | 10297 |
| 30 | THYRO1001426 | F-THYRO1001426 | 5376 | R-THYRO1001426  | 10298 |
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|    | THYRO1001458 | F-THYRO1001458 | 5378 | R-THYRO1001458  | 10300 |
|    | THYRO1001480 | F-THYRO1001480 | 5379 | R-THYRO1001480  | 10301 |
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|    | THYRO1001537 | F-THYRO1001537 | 5382 | R-THYRO1001537  | 10304 |
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| 40 | THYRO1001559 | F-THYRO1001559 | 5384 | R-THYRO1001559  | 10306 |
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|    | THYRO1001595 | F-THYRO1001595 | 5388 | R-THYRO1001595  | 10310 |
| 45 | THYRO1001602 | F-THYRO1001602 | 5389 | R-THYRO1001602  | 10311 |
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|    | THYRO1001637 | F-THYRO1001637 | 5392 | R-THYRO1001637  | 10314 |
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|    | THYRO1001661 | F-THYRO1001661 | 5394 | R-THYRO1001661  | 10316 |
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| 55 | THYRO1001703 | F-THYRO1001703 | 5397 | R-THYRO1001703  | 10319 |

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| 25 | Y79AA1000202 | F-Y79AA1000202 | 5418 | R-Y79AA1000202  | 10339 |
|    | Y79AA1000214 | F-Y79AA1000214 | 5419 | R-Y79AA1000214  | 10340 |
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| 30 | Y79AA1000258 | F-Y79AA1000258 | 5422 | R-Y79AA1000258  | 10343 |
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|    | Y79AA1000313 | F-Y79AA1000313 | 5424 | R-Y79AA1000313  | 10345 |
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|    | Y79AA1000420 | F-Y79AA1000420 | 5433 | R-Y79AA1000420  | 10354 |
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|    | Y79AA1000574 | F-Y79AA1000574 | 5440 | R-Y79AA1000574  | 10361 |
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| 55 | Y79AA1000705 | F-Y79AA1000705 | 5443 | R-Y79AA1000705  | 10363 |

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| 5  | Y79AA1000752 | F-Y79AA1000752 | 5446 | R-Y79AA1000752  | 10366 |
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| 30 | Y79AA1001061 | F-Y79AA1001061 | 5467 | R-Y79AA1001061  | 10385 |
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| 35 | Y79AA1001105 | F-Y79AA1001105 | 5471 | R-Y79AA1001105  | 10389 |
|    | Y79AA1001145 | F-Y79AA1001145 | 5472 | R-Y79AA1001145  | 10390 |
|    | Y79AA1001167 | F-Y79AA1001167 | 5473 | R-Y79AA1001167  | 10391 |
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| 40 | Y79AA1001211 | F-Y79AA1001211 | 5476 | R-Y79AA1001211  | 10394 |
|    | Y79AA1001216 | F-Y79AA1001216 | 5477 | R-Y79AA1001216  | 10395 |
|    | Y79AA1001228 | F-Y79AA1001228 | 5478 | R-Y79AA1001228  | 10396 |
|    | Y79AA1001233 | F-Y79AA1001233 | 5479 | R-Y79AA1001233  | 10397 |
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|    | Y79AA1001384 | F-Y79AA1001384 | 5485 | R-Y79AA1001384  | 10403 |
|    | Y79AA1001391 | F-Y79AA1001391 | 5486 | R-Y79AA1001391  | 10404 |
|    | Y79AA1001394 | F-Y79AA1001394 | 5487 | R-Y79AA1001394  | 10405 |
| 55 | Y79AA1001402 | F-Y79AA1001402 | 5488 | R-Y79AA1001402  | 10406 |
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| 5  | Y79AA1001541 | F-Y79AA1001541 | 5492 | R-nnnnnnnnnnnnn | 10410 |
|    | Y79AA1001548 | F-Y79AA1001548 | 5493 | R-Y79AA1001548  | 10411 |
|    | Y79AA1001555 | F-Y79AA1001555 | 5494 | R-Y79AA1001555  | 10412 |
|    | Y79AA1001581 | F-Y79AA1001581 | 5495 |                 |       |
|    | Y79AA1001585 | F-Y79AA1001585 | 5496 | R-Y79AA1001585  | 10413 |
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|    | Y79AA1001603 | F-Y79AA1001603 | 5498 | R-Y79AA1001603  | 10415 |
|    | Y79AA1001613 | F-Y79AA1001613 | 5499 | R-Y79AA1001613  | 10416 |
|    | Y79AA1001647 | F-Y79AA1001647 | 5500 | R-Y79AA1001647  | 10417 |
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|    | Y79AA1001696 | F-Y79AA1001696 | 5504 | R-Y79AA1001696  | 10421 |
| 20 | Y79AA1001705 | F-Y79AA1001705 | 5505 | R-Y79AA1001705  | 10422 |
|    | Y79AA1001711 | F-Y79AA1001711 | 5506 | R-Y79AA1001711  | 10423 |
|    | Y79AA1001781 | F-Y79AA1001781 | 5507 | R-Y79AA1001781  | 10424 |
|    | Y79AA1001805 | F-Y79AA1001805 | 5508 | R-nnnnnnnnnnnnn | 10425 |
| 25 | Y79AA1001827 | F-Y79AA1001827 | 5509 | R-Y79AA1001827  | 10426 |
|    | Y79AA1001846 | F-Y79AA1001846 | 5510 | R-Y79AA1001846  | 10427 |
|    | Y79AA1001848 | F-Y79AA1001848 | 5511 | R-Y79AA1001848  | 10428 |
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| 30 | Y79AA1001874 | F-Y79AA1001874 | 5513 | R-Y79AA1001874  | 10430 |
|    | Y79AA1001875 | F-Y79AA1001875 | 5514 | R-Y79AA1001875  | 10431 |
|    | Y79AA1001923 | F-Y79AA1001923 | 5515 | R-Y79AA1001923  | 10432 |
|    | Y79AA1001963 | F-Y79AA1001963 | 5516 |                 |       |
| 35 | Y79AA1002027 | F-Y79AA1002027 | 5517 | R-Y79AA1002027  | 10433 |
|    | Y79AA1002083 | F-Y79AA1002083 | 5518 | R-Y79AA1002083  | 10434 |
|    | Y79AA1002089 | F-Y79AA1002089 | 5519 | R-Y79AA1002089  | 10435 |
|    | Y79AA1002093 | F-Y79AA1002093 | 5520 | R-Y79AA1002093  | 10436 |
|    | Y79AA1002103 | F-Y79AA1002103 | 5521 | R-Y79AA1002103  | 10437 |
| 40 | Y79AA1002115 | F-Y79AA1002115 | 5522 | R-Y79AA1002115  | 10438 |
|    | Y79AA1002125 | F-Y79AA1002125 | 5523 | R-Y79AA1002125  | 10439 |
|    | Y79AA1002139 | F-Y79AA1002139 | 5524 | R-Y79AA1002139  | 10440 |
|    | Y79AA1002204 | F-Y79AA1002204 | 5525 | R-Y79AA1002204  | 10441 |
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|    | Y79AA1002209 | F-Y79AA1002209 | 5527 | R-Y79AA1002209  | 10443 |
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|    | Y79AA1002211 | F-Y79AA1002211 | 5529 | R-Y79AA1002211  | 10445 |
| 50 | Y79AA1002220 | F-Y79AA1002220 | 5530 | R-Y79AA1002220  | 10446 |
|    | Y79AA1002229 | F-Y79AA1002229 | 5531 | R-Y79AA1002229  | 10447 |
|    | Y79AA1002234 | F-Y79AA1002234 | 5532 | R-Y79AA1002234  | 10448 |
|    | Y79AA1002246 | F-Y79AA1002246 | 5533 | R-Y79AA1002246  | 10449 |
| 55 | Y79AA1002258 | F-Y79AA1002258 | 5534 | R-Y79AA1002258  | 10450 |
|    | Y79AA1002298 | F-Y79AA1002298 | 5535 | R-Y79AA1002298  | 10451 |



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|    | Y79AA1002311 | F-Y79AA1002311 | 5537 | R-Y79AA1002311  | 10453 |
| 5  | Y79AA1002351 | F-Y79AA1002351 | 5538 | R-Y79AA1002351  | 10454 |
|    | Y79AA1002361 | F-Y79AA1002361 | 5539 | R-Y79AA1002361  | 10455 |
|    | Y79AA1002399 | F-Y79AA1002399 | 5540 | R-Y79AA1002399  | 10456 |
|    | Y79AA1002407 | F-Y79AA1002407 | 5541 | R-Y79AA1002407  | 10457 |
| 10 | Y79AA1002416 | F-Y79AA1002416 | 5542 | R-Y79AA1002416  | 10458 |
|    | Y79AA1002431 | F-Y79AA1002431 | 5543 | R-Y79AA1002431  | 10459 |
|    | Y79AA1002433 | F-Y79AA1002433 | 5544 | R-nnnnnnnnnnnnn | 10460 |
|    | Y79AA1002472 | F-Y79AA1002472 | 5545 | R-Y79AA1002472  | 10461 |
| 15 | Y79AA1002482 | F-Y79AA1002482 | 5546 | R-Y79AA1002482  | 10462 |
|    | Y79AA1002487 | F-Y79AA1002487 | 5547 | R-Y79AA1002487  | 10463 |

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Table 2

| name of<br>clone | name of<br>5'-end<br>sequence | SEQ ID<br>of 5'-end<br>sequence | name of<br>3'-end<br>sequence | SEQ ID<br>of 3'-end<br>sequence |
|------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|
| HEMBA1000497     | F-HEMBA1000497                | 16111                           | R-HEMBA1000497                | 16165                           |
| HEMBA1001750     | F-HEMBA1001750                | 16112                           | R-HEMBA1001750                | 16166                           |
| HEMBA1003854     | F-HEMBA1003854                | 16113                           | R-HEMBA1003854                | 16167                           |
| HEMBA1004193     | F-HEMBA1004193                | 16114                           | R-HEMBA1004193                | 16168                           |
| HEMBA1004860     | F-HEMBA1004860                | 16115                           | R-HEMBA1004860                | 16169                           |
| HEMBA1005572     | F-HEMBA1005572                | 16116                           | R-HEMBA1005572                | 16170                           |
| HEMBA1006038     | F-HEMBA1006038                | 16117                           | R-HEMBA1006038                | 16171                           |
| HEMBA1006092     | F-HEMBA1006092                | 16118                           | R-HEMBA1006092                | 16172                           |
| HEMBA1006406     | F-HEMBA1006406                | 16119                           | R-HEMBA1006406                | 16173                           |
| HEMBA1006650     | F-HEMBA1006650                | 16120                           | R-HEMBA1006650                | 16174                           |
| HEMBA1006812     | F-HEMBA1006812                | 16121                           | R-HEMBA1006812                | 16175                           |
| HEMBA100672      | F-HEMBA100672                 | 16122                           | R-HEMBA100672                 | 16176                           |
| HEMBA1001197     | F-HEMBA1001197                | 16123                           | R-HEMBA1001197                | 16177                           |
| HEMBA1001871     | F-HEMBA1001871                | 16124                           | R-HEMBA1001871                | 16178                           |
| MAMMA1001252     | F-MAMMA1001252                | 16125                           | R-MAMMA1001252                | 16179                           |
| MAMMA1002094     | F-MAMMA1002094                | 16126                           | R-MAMMA1002094                | 16180                           |
| NT2RM4000634     | F-NT2RM4000634                | 16127                           | R-NT2RM4000634                | 16181                           |
| NT2RM4000657     | F-NT2RM4000657                | 16128                           | R-NT2RM4000657                | 16182                           |
| NT2RM4000783     | F-NT2RM4000783                | 16129                           | R-NT2RM4000783                | 16183                           |
| NT2RM4000857     | F-NT2RM4000857                | 16130                           | R-NT2RM4000857                | 16184                           |
| NT2RM4001178     | F-NT2RM4001178                | 16131                           | R-NT2RM4001178                | 16185                           |
| NT2RM4002420     | F-NT2RM4002420                | 16132                           | R-NT2RM4002420                | 16186                           |
| NT2RP2000198     | F-NT2RP2000198                | 16133                           | R-NT2RP2000198                | 16187                           |
| NT2RP2000551     | F-NT2RP2000551                | 16134                           | R-NT2RP2000551                | 16188                           |
| NT2RP2000660     | F-NT2RP2000660                | 16135                           | R-NT2RP2000660                | 16189                           |

|    |              |                |       |                |       |
|----|--------------|----------------|-------|----------------|-------|
|    | NT2RP2001214 | F-NT2RP2001214 | 16136 | R-NT2RP2001214 | 16190 |
|    | NT2RP2001460 | F-NT2RP2001460 | 16137 | R-NT2RP2001460 | 16191 |
| 5  | NT2RP2001756 | F-NT2RP2001756 | 16138 | R-NT2RP2001756 | 16192 |
|    | NT2RP2002056 | F-NT2RP2002056 | 16139 | R-NT2RP2002056 | 16193 |
|    | NT2RP2002677 | F-NT2RP2002677 | 16140 | R-NT2RP2002677 | 16194 |
|    | NT2RP2002755 | F-NT2RP2002755 | 16141 | R-NT2RP2002755 | 16195 |
| 10 | NT2RP2002843 | F-NT2RP2002843 | 16142 | R-NT2RP2002843 | 16196 |
|    | NT2RP2003101 | F-NT2RP2003101 | 16143 | R-NT2RP2003101 | 16197 |
|    | NT2RP2003799 | F-NT2RP2003799 | 16144 | R-NT2RP2003799 | 16198 |
|    | NT2RP2004095 | F-NT2RP2004095 | 16145 | R-NT2RP2004095 | 16199 |
| 15 | NT2RP2004732 | F-NT2RP2004732 | 16146 | R-NT2RP2004732 | 16200 |
|    | NT2RP2004920 | F-NT2RP2004920 | 16147 | R-NT2RP2004920 | 16201 |
|    | NT2RP2005454 | F-NT2RP2005454 | 16148 | R-NT2RP2005454 | 16202 |
|    | NT2RP2005776 | F-NT2RP2005776 | 16149 | R-NT2RP2005776 | 16203 |
| 20 | NT2RP2005806 | F-NT2RP2005806 | 16150 | R-NT2RP2005806 | 16204 |
|    | NT2RP2005882 | F-NT2RP2005882 | 16151 | R-NT2RP2005882 | 16205 |
|    | NT2RP3001282 | F-NT2RP3001282 | 16152 | R-NT2RP3001282 | 16206 |
|    | NT2RP3001723 | F-NT2RP3001723 | 16153 | R-NT2RP3001723 | 16207 |
| 25 | NT2RP3002099 | F-NT2RP3002099 | 16154 | R-NT2RP3002099 | 16208 |
|    | NT2RP3003155 | F-NT2RP3003155 | 16155 | R-NT2RP3003155 | 16209 |
|    | NT2RP3004028 | F-NT2RP3004028 | 16156 | R-NT2RP3004028 | 16210 |
| 30 | OVARC1000008 | F-OVARC1000008 | 16157 | R-OVARC1000008 | 16211 |
|    | OVARC1000724 | F-OVARC1000724 | 16158 | R-OVARC1000724 | 16212 |
|    | OVARC1000751 | F-OVARC1000751 | 16159 | R-OVARC1000751 | 16213 |
|    | OVARC1001029 | F-OVARC1001029 | 16160 | R-OVARC1001029 | 16214 |
| 35 | PLACE1000814 | F-PLACE1000814 | 16161 | R-PLACE1000814 | 16215 |
|    | PLACE1003030 | F-PLACE1003030 | 16162 | R-PLACE1003030 | 16216 |
|    | PLACE1005549 | F-PLACE1005549 | 16163 | R-PLACE1005549 | 16217 |
| 40 | PLACE1007218 | F-PLACE1007218 | 16164 | R-PLACE1007218 | 16218 |

**[0019]** Furthermore, the present invention relates to the use of the above primers, as described below.

- 45 (4) A polynucleotide which can be synthesized with the primer set of (2) or (3).  
 (5) A polynucleotide comprising a coding region in the polynucleotide of (4).  
 (6) A substantially pure protein encoded by polynucleotide of (4).  
 (7) A partial peptide of the protein of (6).

50 **[0020]** In addition, the present invention comprises a polynucleotide described below and a protein encoded by the polynucleotide.

(8) An isolated polynucleotide selected from the group consisting of

- 55 (a) a polynucleotide comprising a coding region of the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;  
 (b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;  
 (c) a polynucleotide comprising a nucleotide sequence encoding a protein comprising an amino acid sequence

selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, in which one or more amino acids are substituted, deleted, inserted, and/or added, wherein said protein is functionally equivalent to the protein comprising said amino acid sequence selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351;

(d) a polynucleotide that hybridizes with a polynucleotide comprising a nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351, and that comprises a nucleotide sequence encoding a protein functionally equivalent to the protein encoded by the nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351;

(e) a polynucleotide comprising a nucleotide sequence encoding a partial amino acid sequence of a protein encoded by the polynucleotide of (a) to (d);

(f) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351.

(9). A substantially pure protein encoded by the polynucleotide of (8).

(10) An antibody against the protein or peptide of any one of (6), (7), and (9).

(11) A vector comprising the polynucleotide of (5) or (8).

(12) A transformant carrying the polynucleotide of (5) or (8), or the vector of (11).

(13) A transformant expressively carrying the polynucleotide of (5) or (8), or the vector of (11).

(14) A method for producing the protein or peptide of any one of (6), (7), and (9), comprising culturing the transformant of (13) and recovering the expression product.

(15) An oligonucleotide comprising the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351 or the nucleotide sequence complementary to the complementary strand thereof, wherein said oligonucleotide comprises 15 nucleotides or more.

(16) Use of the oligonucleotide of (15) as a primer for synthesizing a polynucleotide.

(17) Use of the oligonucleotide of (15) as a probe for detecting a gene.

(18) An antisense polynucleotide against the polynucleotide of (8), or the portion thereof.

(19) A method for synthesizing a polynucleotide, the method comprising:

a) synthesizing a complementary strand using a cDNA library as a template, and using the primer set of (2) or (3), or the primer of (16); and

b) recovering the synthesized product.

(20) The method of (19), wherein the cDNA library is obtainable by oligo-capping method.

(21) The method of (19), wherein the complementary strand is obtainable by PCR.

(22) A method for detecting the polynucleotide of (8), the method comprising:

a) incubating a target polynucleotide with the oligonucleotide of (15) under the conditions where hybridization occurs, and

b) detecting the hybridization of the target polynucleotide with the oligonucleotide of (15).

(23) A database of polynucleotides and/or proteins, the database comprising information on at least one sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351 and/or the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, or a medium on which the database is stored.

**[0021]** Any patents, patent applications, and publications cited herein are incorporated by reference.

#### BRIEF DESCRIPTION OF THE DRAWINGS

**[0022]** Figure 1 shows the restriction maps of vectors pME18SFL3 and pUC19FL3.

**[0023]** Figure 2 shows the reproducibility of gene expression analysis. The respective intensities of gene expression observed in independent set of experiments are plotted in the vertical axis as well as in the horizontal axis.

**[0024]** Figure 3 shows the detection limit in gene expression analysis. The intensity of expression is shown in the vertical axis and the concentration ( $\mu\text{g/ml}$ ) of probe used is shown in the horizontal axis.

#### DETAILED DESCRIPTION OF THE INVENTION

**[0025]** Herein, "polynucleotide" is defined as a molecule in which multiple nucleotides are polymerized. There are no limitations in the number of the polymerized nucleotides. In case that the polymer contains relatively low number

of nucleotides, it is also described as an "oligonucleotide". The polynucleotide or the oligonucleotide of the present invention can be a natural or chemically synthesized product. Alternatively, it can be synthesized using a template DNA by an enzymatic reaction such as PCR.

**[0026]** All the cDNA provided by the invention are full-length cDNA. Herein, a "full-length cDNA" is defined as a cDNA which contains both ATG codon (the translation start site) and the stop codon. Accordingly, the untranslated regions, which are originally found in the upstream or downstream of the protein coding region in natural mRNA, may or may not be contained.

**[0027]** An "isolated polynucleotide" is a polynucleotide the structure of which is not identical to that of any naturally occurring nucleic acid or to that of any fragment of a naturally occurring genomic nucleic acid spanning more than three separate genes. The term therefore covers, for example,

(a) a DNA which has the sequence of part of a naturally occurring genomic DNA molecule but is not flanked by both of the coding sequences that flank that part of the molecule in the genome of the organism in which it naturally occurs;

(b) a nucleic acid incorporated into a vector or into the genomic DNA of a prokaryote or eukaryote in a manner such that the resulting molecule is not identical to any naturally occurring vector or genomic DNA;

(c) a separate molecule such as a cDNA, a genomic fragment, a fragment produced by polymerase chain reaction (PCR), or a restriction fragment; and

(d) a recombinant nucleotide sequence that is part of a hybrid gene, i.e., a gene encoding a fusion protein. Specifically excluded from this definition are nucleic acids present in mixtures of different (i) DNA molecules, (ii) transfected cells, or (iii) cell clones: e.g., as these occur in a DNA library such as a cDNA or genomic DNA library.

**[0028]** The term "substantially pure" as used herein in reference to a given polypeptide means that the protein or polypeptide is substantially free from other biological macromolecules. The substantially pure protein or polypeptide is at least 75% (e.g., at least 80, 85, 95, or 99%) pure by dry weight. Purity can be measured by any appropriate standard method, for example, by column chromatography, polyacrylamide gel electrophoresis, or HPLC analysis.

**[0029]** All the clones (5602 clones) of the present invention are novel and encode the full-length proteins. All the clones were prepared by oligo capping method, which can achieve cDNA cloning with high fullness ratio. The cDNA clones were selected by using ATGprl score as an index of the fullness ratio at the 5'-end, based on the sequence features of the 5'-end sequences. Selection was further carried out by searching GenBank database for EST sequences homologous to 5'-end sequence of each clone by BLAST [S.F. Altschul, W. Gish, W. Miller, E.W. Myers & D.L. Lipman J. Mol. Biol., 215:403-410 (1990); W. Gish, & D.J. States, Nature Genet., 3:266-272 (1993)] and by considering the number of matching (identical) EST sequences or the number of continuous amino acids in the 5'-end sequence initiated from the initiation codon.

**[0030]** Moreover, the clones were turn out to be not identical to any of the known human mRNA (namely novel) by homology search using the 5'-end sequence.

**[0031]** The primers of the present invention, which are used for synthesizing full-length cDNA, are selected from the group comprising SEQ ID NO: 1-5547 (5'-primer), or SEQ ID NO: 5548-10463 (3'-primer). Further, the primers of the present invention, which are used for synthesizing full-length cDNA, are selected from SEQ ID NO: 16111-16164 (5'-primer), or SEQ ID NO: 16165-16218 (3'-primer). Some of the nucleotides include a known EST as its part. However, the primers of the present invention are novel in terms that the primers enable to synthesize full-length cDNA. Because the known ESTs lack important information on what part of cDNA the ESTs correspond to, it is impossible to design primers on the basis of the ESTs.

**[0032]** All the full-length cDNA of the present invention can be synthesized using a primer set comprising the nucleotide sequences selected from both the 5'-and 3'-end sequences, or a set comprising a primer based on the 5'-end sequence and an oligo-dT primer, by a method such as PCR (Current protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 6.1-6.4).

**[0033]** Specifically, PCR can be performed using an oligonucleotide that has 15 nucleotides longer, and specifically hybridizes with the complementary strand of the polynucleotide that contains the nucleotide sequence selected from the 5'-end sequences shown in Table 1 and 2 (SEQ ID NO: 1-5547, or SEQ ID NO: 16111-16164), and an oligo-dT primer as a 5'-, and 3'-primer, respectively. The length of the primers is usually 15-100 bp, and favorably between 15-35 bp. In case of LA PCR, which is described below, the primer length of 25-35 bp may provide a good result.

**[0034]** A method to design a primer that enables a specific amplification based on the given nucleotide sequence is known to those skilled in the art (Current Protocols in Molecular Biology, Ausubel et al. edit, (1987) John Wiley & Sons, Section 6.1-6.4). In designing a primer based on the 5'-end sequence, the primer is designed so as that, in principle, the amplification products will include the translation start site. Accordingly, in case that a given 5'-end nucleotide sequence is the 5'- untranslated region (5'UTR), any part of the sequence can be used as a 5'-primer as far as the specificity toward the target cDNA is insured. The translation start site can be predicted using a known method such

as the ATGpr as described below.

[0035] When synthesizing a polynucleotide, the target nucleotide sequence to be amplified can extend to several thousand bp in some cDNA. However, it is possible to amplify such a long nucleotides by using such as LA PCR (Long and Accurate PCR). It is advantageous to use LA PCR when synthesizing long DNA. In LA PCR, in which a special DNA polymerase having 3'→5' exonuclease activity is used, misincorporated nucleotides can be removed. Accordingly, accurate synthesis of the complementary strand can be achieved even with a long nucleotide sequence. By using LA PCR, it is reported that amplification of a nucleotide with 20 kb longer can be achieved under desirable condition (Takeshi Hayashi (1996) Jikken-Igaku Bessatsu, "Advanced Technologies in PCR" Youdo-sha).

[0036] A template DNA for synthesizing the cDNA of the present invention can be obtained by using cDNA libraries that are prepared by various methods. The full-length cDNA clones obtained here are those with high fullness ratio, which were obtained using a combination of (1) a method to prepare a full-length-enriched cDNA library using the oligo-capping method, and (2) an estimation system for fullness using the 5'-end sequence (selection based on the estimation by the ATGpr after removing clones that are not-full-length compared to the ESTs). However, it is possible to easily obtain a full-length cDNA by using the primers that are provided by the present invention, not by the above described specialized method.

The problem with the cDNA libraries prepared by the known methods or commercially available is that mRNA contained in the libraries has very low fullness ratio. Thus, it is difficult to screen full-length cDNA clone directly from the library using ordinary cloning methods. The present invention has revealed a primer that is capable of synthesizing a full-length cDNA. If provided with primers, it is possible to synthesize a target full-length cDNA by using enzymatic reactions such as PCR. In particular, a full-length-enriched cDNA library, synthesized by methods such as oligo-capping, is desirable to synthesize a full-length cDNA with more reliability.

[0037] The 5'-end sequence of the full-length cDNA clones of the invention can be used to isolate the regulatory element of transcription including the promoter on the genome. By the spring of the year 2000, a rough draft of the human genome (analysis of human genomic sequence with lower accuracy), which covers 90% of the genome, is planned to be accomplished, and by the year 2003, analysis of the entire human genomic sequence is going to be finished. However, it is hard to analyze with software the transcription start sites on the human genome, in which long introns exist. By contrast, it is easy to specify the transcription start site on the genomic sequence using the 5'-end sequence of the full-length cDNA clone, thus it is easy to obtain the genomic region involved in transcription regulation, which includes the promoter that is contained in the upstream of the transcription start site.

[0038] The full-length cDNAs cloned in the present invention are classified into 13 groups, based on the data such as ATGpr1 score, by which the fullness ratio can be evaluated. Specifically, the 13 groups consist of; the below-mentioned groups (1)-(3), containing 3690 clones (Table 9), and the group (12), containing 3 clones, wherein ATGpr1 (score defined in the ATGpr program) is higher than 0.3; and the below-mentioned groups (4)-(11), containing 1857 clones (Table 10), and the group (13), containing 52 clones, wherein, although ATGpr1 is 0.3 or less, the clones are judged to be full-length from various viewpoints. Names of the clones belonging to the groups (1)-(13) are as indicated in Examples or below.

(1) 1516 clones

Among the 3690 clones that have the maximal ATGpr1 score higher than 0.3, 1516 clones are novel full-length clones, in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(2) 377 clones

Among the 3690, 377 clones are novel full-length clones, in which the number of human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(3) 1797 clones

Among the 3690, 1797 clones are novel full-length clones, in which the number of human EST having identical sequence at the 5'-end is not more than 20 (except the clones described above).

(4) 453 clones

Among the 1857 clones in which the maximal ATGpr1 score is 0.3 or less, the following 453 clones are estimated to be novel full-length clones since the clones have the maximal score 0.3 or more in the ATGpr2, and at least either of the sequences of their 5'- and 3'-ends, or both are not identical to those of any human EST. The ATGpr2 score is determined by using the ATGpr program with neglecting the information of the frequency of the six nucleotides contained within the sequence between the ATG codon and the stop codon (the maximal length is 300 nucleotides from the ATG codon) (Salamo A.A., Nishikawa T., and Swindells M.B. (1998) Bioinformatics, 14: 384-390; <http://www.hri.co.jp/atgpr/>). The ATGpr program for calculating the ATGpr2 score is described as the

ATGpr2 program in the followings.

(5) 24 clones

Among the 1857 clones, 24 clones are estimated to be full-length since their maximal ATGpr2 scores are higher than 0.3, and also novel, though they have low scores in ATGpr1 program, in which the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(6) 65 clones

Among the 1857 clones, 65 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(7) 32 clones

Among the 1857 clones, 32 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(8) 36 clones

Among the 1857 clones, 36 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(9) 81 clones

Among the 1857 clones, 81 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if the number of the human EST having identical sequence at the 5'-end is not more than 20 (other than the clones in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST).

(10) 938 clones

Among the 1857 clones, 938 clones are estimated to be full-length according to the fullness ratio shown in Table 4, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 5'-end is not identical to those of any human EST.

(11) 228 clones

Among the 1857 clones, 228 clones are estimated to be full-length according to the fullness ratio shown in Table 7, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 3'-end is not identical to those of any human EST.

(12) 3 clones

Three clones, HEMBA1006812, HEMBB1001871, and NT2RP3001282, whose maximal ATGpr1 values are higher than 0.3, are full-length and novel clones whose 5'-end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 100 amino acids or more.

(13) 52 clones

The following 52 clones, which have maximal ATGpr1 values of 0.3 or less, are full-length with the fullness ratios shown in Table 4 although the fullness ratios are low:

HEMBA1000497, HEMBA1001750, HEMBA1003854, HEMBA1004193, HEMBA1004860, HEMBA1005572,  
HEMBA1006038, HEMBA1006092, HEMBA1006406, HEMBA1006650, HEMBB1000672, HEMBB1001197,  
MAMMA1001252, MAMMA1002094, NT2RM4000634, NT2RM4000657, NT2RM4000783, NT2RM4000857,  
NT2RM4001178, NT2RM4002420, NT2RP2000198, NT2RP2000551, NT2RP2000660, NT2RP2001214,  
NT2RP2001460, NT2RP2001756, NT2RP2002056, NT2RP2002677, NT2RP2002755, NT2RP2002843,  
NT2RP2003101, NT2RP2003799, NT2RP2004095, NT2RP2004732, NT2RP2004920, NT2RP2005454,  
NT2RP2005776, NT2RP2005806, NT2RP2005882, NT2RP3001723, NT2RP3002099, NT2RP3003155,  
NT2RP3004028, OVARC1000008, OVARC1000724, OVARC1000751, OVARC1001029, PLACE1000814,

PLACE1003030, PLACE1005549, PLACE1007218, NT2RP4002298.

Moreover, the clones are novel clones whose 5' -end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 50 amino acids or more. Among them, the following 20 clones is predicted to contain a coding region with 100 amino acids or more and should encode proteins:

HEMBA1000497, HEMBA1003854, HEMBA1004193, NT2RM4000657, NT2RM4001178, NT2RP2001756, NT2RP2002677, NT2RP2002755, NT2RP2002843, NT2RP2004095, NT2RP2004920, NT2RP2005806, NT2RP3002099, NT2RP3003155, OVARC1000724, OVARC1001029, PLACE1000814, PLACE1003030, PLACE1005549, PLACE1007218.

**[0039]** The protein encoded by the polynucleotide of the invention can be prepared as a recombinant protein or as a natural protein. For example, the recombinant protein can be prepared by inserting the polynucleotide encoding the protein of the invention into a vector, introducing the vector into an appropriate host cell and purifying the protein expressed within the transformed host cell, as described below. In contrast, the natural protein can be prepared, for example, by utilizing an affinity column to which an antibody against the protein of the invention (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 16.1-16.19) is attached. The antibody used for affinity purification may be either a polyclonal antibody, or a monoclonal antibody. Alternatively, in vitro translation (See, for example, "On the fidelity of mRNA translation in the nuclease-treated rabbit reticulocyte lysate system." Dasso M.C., and Jackson R.J. (1989) Nucleic Acids Res. 17: 3129-3144) may be used for preparing the protein of the invention.

**[0040]** Proteins functionally equivalent to the proteins of the present invention can be prepared based on the activities, which were clarified in the above-mentioned manner, of the proteins of the present invention. Using the biological activity possessed by the protein of the invention as an index, it is possible to verify whether or not a particular protein is functionally equivalent to the protein of the invention by examining whether or not the protein has said activity.

**[0041]** Proteins functionally equivalent to the proteins of the present invention can be prepared by those skilled in the art, for example, by using a method for introducing mutations into an amino acid sequence of a protein (for example, site-directed mutagenesis (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 8.1-8.5). Besides, such proteins can be generated by spontaneous mutations. The present invention comprises the proteins having one or more amino acids substitutions, deletions, insertions and/or additions in the amino acid sequences of the proteins of the present invention (Tables 350 and 351), as far as the proteins have the equivalent functions to those of the proteins identified in the present Examples described later.

**[0042]** There are no limitations in the number and sites of amino acid mutations, as far as the proteins maintain the functions thereof. The number of mutations is typically 30% or less, or 20% or less, or 10% or less, preferably within 5% or less, or 3% or less of the total amino acids, more preferably within 2% or less or 1 % or less of the total amino acids. From the viewpoint of maintaining the protein function, it is preferable that a substituted amino has a similar property to that of the original amino acid. For example, Ala, Val, Leu, Ile, Pro, Met, Phe and Trp are assumed to have similar properties to one another because they are all classified into a group of non-polar amino acids. Similarly, substitution can be performed among non-charged amino acid such as Gly, Ser, Thr, Cys, Tyr, Asn, and Gln, acidic amino acids such as Asp and Glu, and basic amino acids such as Lys, Arg, and His.

**[0043]** In addition, proteins functionally equivalent to the proteins of the present invention can be isolated by using techniques of hybridization or gene amplification known to those skilled in the art. Specifically, using the hybridization technique (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4)), those skilled in the art can usually isolate a DNA highly homologous to the DNA encoding the protein identified in the present Example based on the identified nucleotide sequence (Tables 350 and 351) or a portion thereof and obtain the functionally equivalent protein from the isolated DNA. The present invention include proteins encoded by the DNAs hybridizing with the DNAs encoding the proteins identified in the present Example, as far as the proteins are functionally equivalent to the proteins identified in the present Example. Organisms from which the functionally equivalent proteins are isolated are illustrated by vertebrates such as human, mouse, rat, rabbit, pig and bovine, but are not limited to these animals.

**[0044]** Washing conditions of hybridization for the isolation of DNAs encoding the functionally equivalent proteins are usually "1 × SSC, 0.1% SDS, 37°C"; more stringent conditions are "0.5 × SSC, 0.1% SDS, 42°C"; and still more stringent conditions are "0.1 × SSC, 0.1% SDS, 65°C". Alternatively, the following conditions can be given as hybridization conditions of the present invention. Namely, conditions in which the hybridization is done at "6 × SSC, 40% Formamide, 25°C", and the washing at "1 × SSC, 55°C" can be given. More preferable conditions are those in which the hybridization is done at "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". Even more preferable are those in which the hybridization is done at "6 × SSC, 50% Formamide, 37°C", and the washing at "0.1 × SSC, 62°C". The more stringent the conditions of hybridization are, the more frequently the DNAs highly homologous to the probe sequence are isolated. Therefore, it is preferable to conduct hybridization under stringent conditions. Examples of stringent conditions in the present invention are, washing conditions of "0.5 × SSC, 0.1% SDS, 42°C", or alternatively, hybridization conditions of "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". However, the above-mentioned combinations of SSC, SDS and temperature conditions are indicated just as examples.



Those skilled in the art can select the hybridization conditions with similar stringency to those mentioned above by properly combining the above-mentioned or other factors (for example, probe concentration, probe length and duration of hybridization reaction) that determines the stringency of hybridization.

**[0045]** The amino acid sequences of proteins isolated by using the hybridization techniques usually exhibit high  
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homology to those of the proteins of the present invention, which are shown in Tables 350 and 351. The present invention encompasses a polynucleotide comprising a nucleotide sequence that has a high identity to the nucleotide sequence of claim 8 (a).

Furthermore, the present invention encompasses a peptide, or protein comprising an amino acid sequence that has  
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a high identity to the amino acid sequence encoded by the polynucleotide of claim 8 (b). The term "high identity" indicates sequence identity of at least 40% or more; preferably 60% or more; and more preferably 70% or more. Alternatively, more preferable is identity of 90% or more, or 93% or more, or 95% or more, furthermore, 97% or more, or 99% or more. The identity can be determined by using the BLAST search algorithm.

**[0046]** With the gene amplification technique (PCR) (Current Protocols in Molecular Biology, edit, Ausubel et al.,  
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(1987) John Wiley & Sons, Section 6.3-6.4) using primers designed based on the nucleotide sequence (Tables 350 and 351) or a portion thereof identified in the present Example, it is possible to isolate a DNA fragment highly homologous to the polynucleotide sequence or a portion thereof and to obtain functionally equivalent protein to a particular protein identified in the present Example based on the isolated DNA fragment.

**[0047]** The "percent identity" of two amino acid sequences or of two nucleic acids is determined using the algorithm  
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of Karlin and Altschul (Proc. Natl. Acad. Sci. USA 87:2264-2268, 1990), modified as in Karlin and Altschul (Proc. Natl. Acad. Sci. USA 90:5873-5877, 1993). Such an algorithm is incorporated into the BLASTN and BLASTX programs of Altschul et al. (J. Mol. Biol. 215:403-410, 1990). BLAST nucleotide searches are performed with the BLASTN program, score = 100, wordlength = 12. BLAST protein searches are performed with the BLASTX program, score = 50, wordlength = 3. When gaps exist between two sequences, Gapped BLAST is utilized as described in Altschul et al. (Nucleic  
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Acids Res. 25:3389-3402, 1997). When utilizing BLAST and Gapped BLAST programs, the default parameters of the respective programs (e.g., BLASTX and BLASTN) are used. See <http://www.ncbi.nlm.nih.gov>.

**[0048]** The present invention also includes a partial peptide of the proteins of the invention. The partial peptide  
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comprises a protein generated as a result that a signal peptide has been removed from a secretory protein. If the protein of the present invention has an activity as a receptor or a ligand, the partial peptide may function as a competitive inhibitor of the protein and may bind to the receptor (or ligand). In addition, the present invention comprises an antigen peptide for raising antibodies. For the peptides to be specific for the protein of the invention, the peptides comprise at least 7 amino acids, preferably 8 amino acids or more, more preferably 9 amino acids or more, and even more preferably 10 amino acids or more. The peptide can be used for preparing antibodies against the protein of the invention, or competitive inhibitors of them, and also screening for a receptor that binds to the protein of the invention. The partial  
35  
peptides of the invention can be produced, for example, by genetic engineering methods, known methods for synthesizing peptides, or digesting the protein of the invention with an appropriate peptidase.

**[0049]** The present invention also relates to a vector into which the DNA of the invention is inserted. The vector of  
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the invention is not limited as long as it contains the inserted DNA stably. For example, if *E. coli* is used as a host, vectors such as pBluescript vector (Stratagene) are preferable as a cloning vector. To produce the protein of the invention, expression vectors are especially useful. Any expression vector can be used as far as it is capable of expressing the protein *in vitro*, in *E. coli*, in cultured cells, or *in vivo*. For example, pBEST vector (Promega) is preferable for *in vitro* expression, pET vector (Invitrogen) for *E. coli*, pME18S-FL3 vector (GenBank Accession No. AB009864) for cultured cells, and pME18S vector (Mol. Cell. Biol. (1988) 8: 466-472) for *in vivo* expression. To insert the DNA of the invention, ligation utilizing restriction sites can be performed according to the standard method (Current Protocols in  
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Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

**[0050]** The present invention also relates to a transformant carrying the vector of the invention. Any cell can be used  
as a host into which the vector of the invention is inserted, and various kinds of host cells can be used depending on the purposes. For strong expression of the protein in eukaryotic cells, COS cells or CHO cells can be used, for example.

**[0051]** Introduction of the vector into host cells can be performed, for example, by calcium phosphate precipitation  
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method, electroporation method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 9.1-9.9), lipofectamine method (GIBCO-BRL), or microinjection method, etc.

**[0052]** The primer of the present invention can be used for synthesizing full-length cDNA, and also for the detection  
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and/or diagnosis of the abnormality of the protein of the invention encoded by the full-length cDNA. For example, by utilizing polymerase chain reaction (genomic DNA-PCR, or RT-PCR) using the primer of the invention, DNA encoding the protein of the invention can be amplified. It is also possible to obtain the regulatory region of expression in the 5'-upstream by using PCR or hybridization since the transcription start site within the genomic sequence can be easily specified based on the 5'-end sequence of the full-length cDNA. The obtained genomic region can be used for detection and/or diagnosis of the abnormality of the sequence by RFLP analysis, SSCP, or direct sequencing.

[0053] Furthermore, the "polynucleotide having a length of at least 15 nucleotides, comprising a nucleotide sequence that is complementary to a polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs in Tables 350 and 351, or its complementary strand" includes an antisense polynucleotide for suppressing the expression of the protein of the invention. To exert the antisense effect, the antisense polynucleotide has a length of at least 15 bp or more, for example, 50 bp or more, preferably 100 bp or more, and more preferably 500 bp or more, and has a length of usually 3000 bp or less and preferably 2000 bp or less. The antisense DNA can be used in the gene therapy of the diseases that are caused by the abnormality of the protein of the invention (abnormal function or abnormal expression). Said antisense DNA can be prepared, for example, by the phosphorothioate method ("Physicochemical properties of phosphorothioate oligodeoxynucleotides." Stein (1988) *Nucleic Acids Res.* 16: 3209-3221) based on the nucleotide sequence of the DNA encoding the protein (for example, the DNA set forth in any one of SEQ ID NOs in Tables 350 and 351).

[0054] The polynucleotide or antisense DNA of the present invention can be used in gene therapy, for example, by administering it into a patient by the in vivo or ex vivo method with virus vectors such as retrovirus vectors, adenovirus vectors, and adeno-associated virus vectors, or non-virus vectors such as liposome.

[0055] The present invention also relates to antibodies that bind to the protein of the invention. There are no limitations in the form of the antibodies of the invention. They include polyclonal antibodies, monoclonal antibodies, or their portions that can bind to the protein of the invention. They also include antibodies of all classes. Furthermore, special antibodies such as humanized antibodies are also included.

[0056] The polyclonal antibody of the invention can be obtained according to the standard method by synthesizing an oligopeptide corresponding to the amino acid sequence and immunizing rabbits with the peptides (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.12-11.13). The monoclonal antibody of the invention can be obtained according to the standard method by purifying the protein expressed in *E. coli*, immunizing mice with the protein, and producing a hybridoma cell by fusing the spleen cells and myeloma cells (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

[0057] The antibody binding to the protein of the present invention can be used for purification of the protein of the invention, and also for detection and/or diagnosis of the abnormalities of the expression and structure of the protein. Specifically, proteins can be extracted, for example, from tissues, blood, or cells, and the protein of the invention is detected by Western blotting, immunoprecipitation, or ELISA, etc. for the above purpose.

[0058] Furthermore, the antibody binding to the protein of the present invention can be utilized for treating the diseases that associates with the protein of the invention. If the antibodies are used for treating patients, human antibodies or humanized antibodies are preferable in terms of their low antigenicity. The human antibodies can be prepared by immunizing a mouse whose immune system is replaced with that of human ("Functional transplant of megabase human immunoglobulin loci recapitulates human antibody response in mice" Mendez M.J. et al. (1997) *Nat. Genet.* 15: 146-156). The humanized antibodies can be prepared by recombination of the hypervariable region of a monoclonal antibody (Methods in Enzymology (1991) 203: 99-121).

[0059] The cDNA of the present invention encodes the amino acid sequence of a protein which is predicted to have the function(s) described below based on the homology search of the GenBank and SwissProt. Specifically, for instance, as shown in EXAMPLES, searching a known gene or protein that is homologous to the partial sequence of the full-length cDNA of the invention (5602 clone) and referring the function of the gene and of the protein encoded by the gene make it possible to predict the function of the protein encoded by the cDNA of the invention. In this way, each of 1437 clones out of the 5602 full-length cDNA clones of the invention was predicted to encode a protein that was classified into one or more of the following categories.

- Secretory or membrane protein (261 clones)
- Glycoprotein-associated protein (113 clones)
- Signal transduction-associated protein (148 clones)
- Transcription-associated protein (233 clones)
- Disease-associated protein (437 clones)
- Enzyme or metabolism-associated protein (301 clones)
- Cell division- or cell proliferation-associated protein (74 clones)
- Cytoskeleton-associated protein (92 clones)
- RNA synthesis-associated protein (280 clones)
- Nuclear protein (352 clones)
- Protein synthesis- or transport-associated protein (112 clones)
- Cellular defense-associated protein (23 clones)
- Development- or growth-associated protein (23 clones)

[0060] It is also possible to predict the protein function by looking into the amino acid sequence for the motifs such

as the signal sequence, transmembrane region, nuclear translocation signal, glycosylation signal, phosphorylation site, Zinc finger motif, and SH3 domain. The programs, PSORT (Nakai K., and Kanehisa M. (1992) *Genomics* 14: 897-911), SOSUI (Hirokawa T. et al. (1998) *Bioinformatics* 14: 378-379) (Mitsui Information Developing Inc.), and MEMSAT (Jones D.T., Taylor W.R., and Thornton J.M. (1994) *Biochemistry* 33: 3038-3049) can be used to predict the existence of the signal sequence or transmembrane region. Alternatively, a partial amino acid sequence of the protein is fused with another protein such as GFP, the fusion protein is transfected into cultured cells, and the localization is analyzed to predict the function of the original protein.

[0061] Based on the determined nucleotide sequences of the full-length cDNAs obtained in the present invention, it is possible to predict more detailed functions of the proteins encoded by the cDNA clones, for example, by searching the databases such as GenBank, Swiss-Prot and UniGene for homologies of the cDNAs; or by searching the amino acid sequences deduced from the full-length cDNAs for signal sequences by using software programs such as PSORT, for transmembrane regions by using software programs such as SOSUI or for motifs by using software programs such as Pfam (<http://www.sanger.ac.uk/Software/Pfam/index.shtml>) and PROSITE (<http://www.expasy.ch/prosite/>). As a matter of course, the functions are often predictable by using partial sequence information (preferably 300 nucleotides or more) instead of the full-length nucleotide sequences. However, the result of the prediction by using partial nucleotide sequence does not always agree with the result obtained by using full-length nucleotide sequence, and thus, it is needless to say that the prediction of function is preferably performed based on the full-length nucleotide sequences. GenBank, Swiss-Prot and UniGene databases were searched for homologies of the full-length nucleotide sequences of the 4997 clones (see Example 18). The amino acid sequences deduced from the full-length nucleotide sequences were searched for functional domains by PSORT, SOSUI and Pfam. Prediction of functions of proteins encoded by the clones and the categorization thereof were performed based on these results obtained.

The following 798 clones were categorized into secretory and/or membrane proteins.

HEMBA1000356, HEMBA1000518, HEMBA1000531, HEMBA1000637, HEMBA1000719, HEMBA1000817,  
HEMBA1000822, HEMBA1000852, HEMBA1000870, HEMBA1000991, HEMBA1001052, HEMBA1001071,  
HEMBA1001085, HEMBA1001286, HEMBA1001351, HEMBA1001407, HEMBA1001446, HEMBA1001515,  
HEMBA1001557, HEMBA1001569, HEMBA1001661, HEMBA1001734, HEMBA1001746, HEMBA1001866,  
HEMBA1002125, HEMBA1002150, HEMBA1002166, HEMBA1002417, HEMBA1002462, HEMBA1002475,  
HEMBA1002477, HEMBA1002486, HEMBA1002609, HEMBA1002659, HEMBA1002661, HEMBA1002780,  
HEMBA1002818, HEMBA1002876, HEMBA1002921, HEMBA1003071, HEMBA1003077, HEMBA1003079,  
HEMBA1003086, HEMBA1003096, HEMBA1003281, HEMBA1003286, HEMBA1003538, HEMBA1003711,  
HEMBA1003742, HEMBA1003803, HEMBA1004055, HEMBA1004143, HEMBA1004146, HEMBA1004207,  
HEMBA1004341, HEMBA1004461, HEMBA1004577, HEMBA1004637, HEMBA1004752, HEMBA1004756,  
HEMBA1004850, HEMBA1004889, HEMBA1004923, HEMBA1004930, HEMBA1005029, HEMBA1005035,  
HEMBA1005050, HEMBA1005552, HEMBA1005576, HEMBA1005581, HEMBA1005588, HEMBA1005616,  
HEMBA1005699, HEMBA1005991, HEMBA1006036, HEMBA1006038, HEMBA1006067, HEMBA1006173,  
HEMBA1006198, HEMBA1006293, HEMBA1006310, HEMBA1006492, HEMBA1006502, HEMBA1006583,  
HEMBA1006659, HEMBA1006758, HEMBA1006789, HEMBA1006921, HEMBA1006926, HEMBA1006976,  
HEMBA1007203, HEMBA1007301, HEMBB1000037, HEMBB1000050, HEMBB1000054, HEMBB1000175,  
HEMBB1000317, HEMBB1000556, HEMBB1000593, HEMBB1000631, HEMBB1000763, HEMBB1000827,  
HEMBB1000915, HEMBB1000975, HEMBB1001112, HEMBB1001151, HEMBB1001177, HEMBB1001302,  
HEMBB1001348, HEMBB1001564, HEMBB1001630, HEMBB1001871, HEMBB1001872, HEMBB1001925,  
HEMBB1001962, HEMBB1002042, HEMBB1002044, HEMBB1002142, HEMBB1002190, HEMBB1002193,  
HEMBB1002247, HEMBB1002383, HEMBB1002387, HEMBB1002550, HEMBB1002600, HEMBB1002692,  
MAMMA1000045, MAMMA1000129, MAMMA1000133, MAMMA1000277, MAMMA1000278, MAMMA1000410,  
MAMMA1000416, MAMMA1000472, MAMMA1000672, MAMMA1000684, MAMMA1000714, MAMMA1000734,  
MAMMA1000778, MAMMA1000798, MAMMA1000842, MAMMA1000859, MAMMA1000897, MAMMA1000956,  
MAMMA1001008, MAMMA1001030, MAMMA1001041, MAMMA1001073, MAMMA1001080, MAMMA1001139,  
MAMMA1001154, MAMMA1001322, MAMMA1001388, MAMMA1001411, MAMMA1001487, MAMMA1001751,  
MAMMA1001754, MAMMA1001771, MAMMA1002009, MAMMA1002427, MAMMA1002428, MAMMA1002461,  
MAMMA1002524, MAMMA1002573, MAMMA1002598, MAMMA1002655, MAMMA1002684, MAMMA1002769,  
MAMMA1002844, MAMMA1002881, MAMMA1002890, MAMMA1002938, MAMMA1002947, MAMMA1003035,  
MAMMA1003089, MAMMA1003146, MAMMA1003150, NT2RM1000035, NT2RM1000037, NT2RM1000062,  
NT2RM1000080, NT2RM1000092, NT2RM1000131, NT2RM1000199, NT2RM1000257, NT2RM1000260,  
NT2RM1000355, NT2RM1000430, NT2RM1000563, NT2RM1000648, NT2RM1000742, NT2RM1000770,  
NT2RM1000800, NT2RM1000811, NT2RM1000833, NT2RM1000857, NT2RM1000867, NT2RM1000882,  
NT2RM1000905, NT2RM1001008, NT2RM1001115, NT2RM1001139, NT2RM2000259, NT2RM2000260, NT2RM2000287, NT2RM2000395,  
NT2RM2000402, NT2RM2000407, NT2RM2000422, NT2RM2000490, NT2RM2000522, NT2RM2000566,

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|    |               |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|---------------|
|    | NT2RM2000581, | NT2RM2000609, | NT2RM2000821, | NT2RM2001370, | NT2RM2001393, | NT2RM2001499, |
|    | NT2RM2001547, | NT2RM2001613, | NT2RM2001648, | NT2RM2001659, | NT2RM2001671, | NT2RM2001688, |
|    | NT2RM2001698, | NT2RM2001718, | NT2RM2001753, | NT2RM2001760, | NT2RM2001785, | NT2RM2001930, |
|    | NT2RM2001950, | NT2RM2001997, | NT2RM2001998, | NT2RM2002049, | NT2RM2002145, | NT2RM4000233, |
| 5  | NT2RM4000433, | NT2RM4000457, | NT2RM4000486, | NT2RM4000496, | NT2RM4000520, | NT2RM4000634, |
|    | NT2RM4000674, | NT2RM4000700, | NT2RM4000764, | NT2RM4000778, | NT2RM4000795, | NT2RM4000820, |
|    | NT2RM4000857, | NT2RM4001032, | NT2RM4001054, | NT2RM4001116, | NT2RM4001455, | NT2RM4001666, |
|    | NT2RM4001810, | NT2RM4001813, | NT2RM4001930, | NT2RM4001987, | NT2RM4002054, | NT2RM4002073, |
|    | NT2RM4002145, | NT2RM4002146, | NT2RM4002189, | NT2RM4002194, | NT2RM4002251, | NT2RM4002339, |
| 10 | NT2RM4002438, | NT2RM4002446, | NT2RM4002452, | NT2RM4002460, | NT2RM4002493, | NT2RM4002558, |
|    | NT2RM4002565, | NT2RM4002571, | NT2RM4002594, | NT2RP1000130, | NT2RP1000191, | NT2RP1000326, |
|    | NT2RP1000358, | NT2RP1000413, | NT2RP1000418, | NT2RP1000547, | NT2RP1000609, | NT2RP1000677, |
|    | NT2RP1000767, | NT2RP1000782, | NT2RP1000856, | NT2RP1001113, | NT2RP1001247, | NT2RP1001286, |
|    | NT2RP1001310, | NT2RP1001311, | NT2RP1001313, | NT2RP1001385, | NT2RP1001449, | NT2RP1001546, |
| 15 | NT2RP1001569, | NT2RP2000032, | NT2RP2000040, | NT2RP2000056, | NT2RP2000070, | NT2RP2000091, |
|    | NT2RP2000114, | NT2RP2000120, | NT2RP2000173, | NT2RP2000175, | NT2RP2000195, | NT2RP2000257, |
|    | NT2RP2000270, | NT2RP2000283, | NT2RP2000288, | NT2RP2000289, | NT2RP2000459, | NT2RP2000516, |
|    | NT2RP2000660, | NT2RP2000842, | NT2RP2000892, | NT2RP2001081, | NT2RP2001268, | NT2RP2001295, |
|    | NT2RP2001366, | NT2RP2001378, | NT2RP2001576, | NT2RP2001581, | NT2RP2001597, | NT2RP2001613, |
| 20 | NT2RP2001947, | NT2RP2001991, | NT2RP2002025, | NT2RP2002066, | NT2RP2002078, | NT2RP2002105, |
|    | NT2RP2002312, | NT2RP2002325, | NT2RP2002385, | NT2RP2002479, | NT2RP2002537, | NT2RP2002643, |
|    | NT2RP2002701, | NT2RP2002740, | NT2RP2002857, | NT2RP2003125, | NT2RP2003297, | NT2RP2003433, |
|    | NT2RP2003446, | NT2RP2003466, | NT2RP2003506, | NT2RP2003513, | NT2RP2003629, | NT2RP2003668, |
|    | NT2RP2003760, | NT2RP2003777, | NT2RP2003781, | NT2RP2004041, | NT2RP2004142, | NT2RP2004194, |
| 25 | NT2RP2004270, | NT2RP2004300, | NT2RP2004392, | NT2RP2004655, | NT2RP2004681, | NT2RP2004775, |
|    | NT2RP2004799, | NT2RP2004936, | NT2RP2004959, | NT2RP2005012, | NT2RP2005159, | NT2RP2005227, |
|    | NT2RP2005270, | NT2RP2005344, | NT2RP2005465, | NT2RP2005509, | NT2RP2005752, | NT2RP2005781, |
|    | NT2RP2005784, | NT2RP2005812, | NT2RP2006069, | NT2RP2006100, | NT2RP2006141, | NT2RP2006184, |
|    | NT2RP2006261, | NT2RP2006565, | NT2RP2006571, | NT2RP2006573, | NT2RP3000092, | NT2RP3000109, |
| 30 | NT2RP3000134, | NT2RP3000207, | NT2RP3000333, | NT2RP3000341, | NT2RP3000393, | NT2RP3000439, |
|    | NT2RP3000441, | NT2RP3000531, | NT2RP3000685, | NT2RP3000825, | NT2RP3000826, | NT2RP3000852, |
|    | NT2RP3000919, | NT2RP3001084, | NT2RP3001096, | NT2RP3001126, | NT2RP3001140, | NT2RP3001176, |
|    | NT2RP3001260, | NT2RP3001282, | NT2RP3001355, | NT2RP3001383, | NT2RP3001426, | NT2RP3001453, |
|    | NT2RP3001497, | NT2RP3001538, | NT2RP3001589, | NT2RP3001642, | NT2RP3001708, | NT2RP3001716, |
| 35 | NT2RP3001727, | NT2RP3001739, | NT2RP3001799, | NT2RP3001943, | NT2RP3001944, | NT2RP3002002, |
|    | NT2RP3002007, | NT2RP3002014, | NT2RP3002054, | NT2RP3002108, | NT2RP3002163, | NT2RP3002351, |
|    | NT2RP3002455, | NT2RP3002549, | NT2RP3002602, | NT2RP3002628, | NT2RP3002650, | NT2RP3002687, |
|    | NT2RP3002701, | NT2RP3002810, | NT2RP3002869, | NT2RP3002969, | NT2RP3002985, | NT2RP3003008, |
|    | NT2RP3003059, | NT2RP3003071, | NT2RP3003101, | NT2RP3003145, | NT2RP3003197, | NT2RP3003203, |
| 40 | NT2RP3003242, | NT2RP3003302, | NT2RP3003353, | NT2RP3003409, | NT2RP3003576, | NT2RP3003621, |
|    | NT2RP3003665, | NT2RP3003672, | NT2RP3003701, | NT2RP3003716, | NT2RP3003799, | NT2RP3003828, |
|    | NT2RP3003914, | NT2RP3003918, | NT2RP3003992, | NT2RP3004051, | NT2RP3004148, | NT2RP3004155, |
|    | NT2RP3004207, | NT2RP3004282, | NT2RP3004454, | NT2RP3004480, | NT2RP3004503, | NT2RP4000008, |
|    | NT2RP4000051, | NT2RP4000151, | NT2RP4000212, | NT2RP4000243, | NT2RP4000259, | NT2RP4000323, |
| 45 | NT2RP4000417, | NT2RP4000500, | NT2RP4000524, | NT2RP4000556, | NT2RP4000560, | NT2RP4000588, |
|    | NT2RP4000713, | NT2RP4000724, | NT2RP4000817, | NT2RP4000833, | NT2RP4000878, | NT2RP4000907, |
|    | NT2RP4000925, | NT2RP4000928, | NT2RP4000973, | NT2RP4000989, | NT2RP4001057, | NT2RP4001064, |
|    | NT2RP4001079, | NT2RP4001117, | NT2RP4001138, | NT2RP4001149, | NT2RP4001150, | NT2RP4001174, |
|    | NT2RP4001219, | NT2RP4001274, | NT2RP4001313, | NT2RP4001345, | NT2RP4001372, | NT2RP4001373, |
| 50 | NT2RP4001379, | NT2RP4001498, | NT2RP4001547, | NT2RP4001571, | NT2RP4001574, | NT2RP4001644, |
|    | NT2RP4001656, | NT2RP4001677, | NT2RP4001730, | NT2RP4001739, | NT2RP4001803, | NT2RP4001822, |
|    | NT2RP4001823, | NT2RP4001950, | NT2RP4001975, | NT2RP4002052, | NT2RP4002075, | NT2RP5003500, |
|    | NT2RP5003506, | NT2RP5003522, | NT2RP5003534, | OVARC1000060, | OVARC1000335, | OVARC1000682, |
|    | OVARC1000689, | OVARC1000700, | OVARC1000722, | OVARC1000751, | OVARC1000850, | OVARC1000890, |
| 55 | OVARC1000924, | OVARC1000936, | OVARC1000959, | OVARC1000984, | OVARC1000999, | OVARC1001034, |
|    | OVARC1001055, | OVARC1001117, | OVARC1001129, | OVARC1001154, | OVARC1001329, | OVARC1001381, |
|    | OVARC1001391, | OVARC1001453, | OVARC1001476, | OVARC1001506, | OVARC1001610, | OVARC1001702, |
|    | OVARC1001703, | OVARC1001713, | OVARC1001745, | OVARC1001767, | OVARC1002127, | OVARC1002138, |

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|    |   |               |               |               |               |               |
|----|---|---------------|---------------|---------------|---------------|---------------|
|    | OVARC1002158,   | OVARC1002165, | PLACE1000014, | PLACE1000213, | PLACE1000401, | PLACE1000562, |
|    | PLACE1000611,   | PLACE1000656, | PLACE1000712, | PLACE1000793, | PLACE1000909, | PLACE1000948, |
|    | PLACE1000977,   | PLACE1001241, | PLACE1001257, | PLACE1001377, | PLACE1001517, | PLACE1001610, |
|    | PLACE1001761,   | PLACE1001771, | PLACE1001817, | PLACE1001983, | PLACE1002046, | PLACE1002140, |
| 5  | PLACE1002213,   | PLACE1002395, | PLACE1002437, | PLACE1002500, | PLACE1002583, | PLACE1002714, |
|    | PLACE1002722,   | PLACE1002782, | PLACE1002794, | PLACE1002851, | PLACE1002908, | PLACE1003030, |
|    | PLACE1003044,   | PLACE1003045, | PLACE1003238, | PLACE1003296, | PLACE1003369, | PLACE1003420, |
|    | PLACE1003493,   | PLACE1003537, | PLACE1003553, | PLACE1003596, | PLACE1003760, | PLACE1003768, |
|    | PLACE1003771,   | PLACE1003903, | PLACE1004149, | PLACE1004197, | PLACE1004203, | PLACE1004258, |
| 10 | PLACE1004270,   | PLACE1004277, | PLACE1004289, | PLACE1004473, | PLACE1004629, | PLACE1004646, |
|    | PLACE1004743,   | PLACE1004751, | PLACE1004793, | PLACE1004840, | PLACE1004969, | PLACE1005086, |
|    | PLACE1005162,   | PLACE1005206, | PLACE1005313, | PLACE1005467, | PLACE1005530, | PLACE1005595, |
|    | PLACE1005611,   | PLACE1005623, | PLACE1005763, | PLACE1005884, | PLACE1005890, | PLACE1005898, |
|    | PLACE1005934,   | PLACE1005953, | PLACE1006157, | PLACE1006225, | PLACE1006239, | PLACE1006288, |
| 15 | PLACE1006492,   | PLACE1006534, | PLACE1006678, | PLACE1006754, | PLACE1006901, | PLACE1006935, |
|    | PLACE1006956,   | PLACE1007111, | PLACE1007243, | PLACE1007274, | PLACE1007282, | PLACE1007317, |
|    | PLACE1007375,   | PLACE1007386, | PLACE1007409, | PLACE1007416, | PLACE1007484, | PLACE1007583, |
|    | PLACE1007632,   | PLACE1007645, | PLACE1007649, | PLACE1007852, | PLACE1007877, | PLACE1007954, |
|    | PLACE1008273,   | PLACE1008309, | PLACE1008331, | PLACE1008402, | PLACE1008424, | PLACE1008429, |
| 20 | PLACE1008531,   | PLACE1008532, | PLACE1008533, | PLACE1008568, | PLACE1008643, | PLACE1008693, |
|    | PLACE1008715,   | PLACE1009045, | PLACE1009094, | PLACE1009298, | PLACE1009319, | PLACE1009338, |
|    | PLACE1009368,   | PLACE1009493, | PLACE1009639, | PLACE1009659, | PLACE1009708, | PLACE1009731, |
|    | PLACE1009845,   | PLACE1009861, | PLACE1009935, | PLACE1009992, | PLACE1010089, | PLACE1010231, |
|    | PLACE1010321,   | PLACE1010362, | PLACE1010599, | PLACE1010622, | PLACE1010662, | PLACE1010811, |
| 25 | PLACE1010917,   | PLACE1010942, | PLACE1010954, | PLACE1011090, | PLACE1011214, | PLACE1011221, |
|    | PLACE1011371,   | PLACE1011399, | PLACE1011492, | PLACE1011646, | PLACE1011749, | PLACE1011896, |
|    | PLACE2000034,   | PLACE2000062, | PLACE2000111, | PLACE2000132, | PLACE2000176, | PLACE2000187, |
|    | PLACE2000216,   | PLACE2000335, | PLACE2000341, | PLACE2000373, | PLACE2000379, | PLACE2000398, |
|    | PLACE2000399,   | PLACE2000425, | PLACE2000438, | PLACE2000458, | PLACE2000477, | PLACE2000020, |
| 30 | PLACE3000218,   | PLACE3000226, | PLACE3000242, | PLACE3000244, | PLACE3000339, | PLACE3000373, |
|    | PLACE3000399,   | PLACE3000406, | PLACE3000413, | PLACE3000455, | PLACE4000052, | PLACE4000063, |
|    | PLACE4000129,   | PLACE4000247, | PLACE4000250, | PLACE4000259, | PLACE4000300, | PLACE4000387, |
|    | PLACE4000431,   | PLACE4000487, | PLACE4000494, | PLACE4000522, | PLACE4000548, | PLACE4000581, |
|    | PLACE4000593,   | PLACE4000650, | THYRO1000156, | THYRO1000327, | THYRO1000394, | THYRO1000395, |
| 35 | THYRO1000570,   | THYRO1000748, | THYRO1000756, | THYRO1000783, | THYRO1001134, | THYRO1001271, |
|    | THYRO1001287,   | THYRO1001320, | THYRO1001401, | THYRO1001534, | THYRO1001537, | THYRO1001541, |
|    | THYRO1001828,   | Y79AA1000258, | Y79AA1000420, | Y79AA1000469, | Y79AA1000734, | Y79AA1000800, |
|    | Y79AA1000976,   | Y79AA1001023, | Y79AA1001177, | Y79AA1001384, | Y79AA1001394, | Y79AA1001603, |
|    | Y79AA1001647,   | Y79AA1001846, | Y79AA1001874, | Y79AA1002139, | Y79AA1002246, | Y79AA1002351, |
| 40 | Y79AA1002399,   | Y79AA1002416, | MAMMA1002498, | NT2RM4002287  |               |               |
|    | [0062] The following 142 clones were categorized into glycoprotein-associated proteins. |               |               |               |               |               |
|    | HEMBA1000156,   | HEMBA1000518, | HEMBA1000852, | HEMBA1001071, | HEMBA1001286, | HEMBA1001661, |
|    | HEMBA1001734,   | HEMBA1001866, | HEMBA1003071, | HEMBA1003077, | HEMBA1003281, | HEMBA1003538, |
|    | HEMBA1003679,   | HEMBA1003866, | HEMBA1005576, | HEMBA1005581, | HEMBA1005699, | HEMBA1006038, |
| 45 | HEMBA1006976,   | HEMBA1007301, | HEMBA1000317, | HEMBA1000915, | HEMBA1001871, | HEMBA1001872, |
|    | HEMBA1002193,   | MAMMA1000672, | MAMMA1000897, | MAMMA1001030, | MAMMA1001388, | MAMMA1002329, |
|    | MAMMA1002428,   | MAMMA1002573, | MAMMA1003150, | NT2RM1000648, | NT2RM1001115, | NT2RM2000260, |
|    | NT2RM2000407,   | NT2RM2000422, | NT2RM2000490, | NT2RM2001499, | NT2RM2001659, | NT2RM2001930, |
|    | NT2RM4000820,   | NT2RM4000857, | NT2RM4001810, | NT2RM4001813, | NT2RM4001987, | NT2RM4002145, |
| 50 | NT2RM4002189,   | NT2RM4002251, | NT2RM4002460, | NT2RM4002558, | NT2RP1000677, | NT2RP1000782, |
|    | NT2RP1000856,   | NT2RP1001546, | NT2RP2000056, | NT2RP2000070, | NT2RP2001295, | NT2RP2001378, |
|    | NT2RP2001597,   | NT2RP2001991, | NT2RP2002025, | NT2RP2002078, | NT2RP2002385, | NT2RP2004587, |
|    | NT2RP2004732,   | NT2RP2005531, | NT2RP3000207, | NT2RP3000531, | NT2RP3000825, | NT2RP3001140, |
|    | NT2RP3002810,   | NT2RP3003672, | NT2RP3003701, | NT2RP3003716, | NT2RP3003914, | NT2RP3004148, |
| 55 | NT2RP4000212,   | NT2RP4000417, | NT2RP4000724, | NT2RP4000817, | NT2RP4000925, | NT2RP4001150, |
|    | NT2RP4001372,   | NT2RP4001730, | NT2RP4001822, | NT2RP4001823, | NT2RP5003522, | OVARC1000091, |
|    | OVARC1000288,   | OVARC1000682, | OVARC1001055, | OVARC1001506, | OVARC1001713, | OVARC1002127, |
|    | PLACE1000213,   | PLACE1000401, | PLACE1002437, | PLACE1002583, |               |               |

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PLACE1002722, PLACE1003045, PLACE1003238, PLACE1003258, PLACE1003493, PLACE1004197,  
 PLACE1004793, PLACE1005953, PLACE1005955, PLACE1006157, PLACE1006239, PLACE1006368,  
 PLACE1006534, PLACE1006754, PLACE1006956, PLACE1007416, PLACE1007632, PLACE1007649,  
 PLACE1008643, PLACE1009094,  
 5 PLACE1009992, PLACE1010231, PLACE1010662, PLACE1011371, PLACE2000034, PLACE2000373,  
 PLACE2000398, PLACE2000399, PLACE2000438, PLACE2000458, PLACE3000339, PLACE4000063,  
 PLACE4000230, PLACE4000522, PLACE4000548, PLACE4000581, THYRO1000327, THYRO1000756,  
 THYRO1001287, Y79AA1001603, Y79AA1001874, MAMMA1002498

**[0063]** The following 140 clones were categorized into signal transduction-associated proteins.

10 HEMBA1000303, HEMBA1000369, HEMBA1000608, HEMBA1000657, HEMBA1000919, HEMBA1001019,  
 HEMBA1001174, HEMBA1001822, HEMBA1001921, HEMBA1002139, HEMBA1002212, HEMBA1002341,  
 HEMBA1002417, HEMBA1002768, HEMBA1003250, HEMBA1003291, HEMBA1003645, HEMBA1004286,  
 HEMBA1005737, HEMBA1006130, HEMBA1006708, HEMBB1000083, HEMBB1000266, HEMBB1000632,  
 HEMBB1000781, HEMBB1000831, HEMBB1002193, MAMMA1000173, MAMMA1001038,  
 15 MAMMA1001198, MAMMA1002842, MAMMA1003057, NT2RM1000702, NT2RM1000772, NT2RM1001072,  
 NT2RM2000030, NT2RM2000469, NT2RM2000612, NT2RM2001221, NT2RM2001345, NT2RM2002128,  
 NT2RM4000229, NT2RM4000354, NT2RM4000611, NT2RM4000798, NT2RM4001411, NT2RM4001412,  
 NT2RM4001629, NT2RM4001758, NT2RM4002013, NT2RM4002527, NT2RP1000018, NT2RP1000701,  
 NT2RP1001294, NT2RP1001302, NT2RP2000668, NT2RP2001440, NT2RP2001560, NT2RP2002058,  
 20 NT2RP2002193, NT2RP2002408, NT2RP2002710, NT2RP2002929, NT2RP2003164, NT2RP2003912,  
 NT2RP2004232, NT2RP2004768, NT2RP2006071, NT2RP2006534, NT2RP3000759, NT2RP3000845,  
 NT2RP3001646, NT2RP3001857, NT2RP3001938, NT2RP3002004, NT2RP3002785, NT2RP3002909,  
 NT2RP3002988, NT2RP3003800, NT2RP3004189, NT2RP3004544, NT2RP4000147, NT2RP4000839,  
 NT2RP4001122, NT2RP4001148, NT2RP4001336, NT2RP4001375, NT2RP4001644, NT2RP4001725,  
 25 NT2RP4001849, NT2RP4001896, NT2RP4001927, NT2RP4002408, NT2RP5003477, OVARC1000013,  
 OVARC1000437, OVARC1000556, OVARC1000649, OVARC1000945, OVARC1001200,  
 OVARC1002182, PLACE1000977, PLACE1001387, PLACE1002493, PLACE1002591, PLACE1003190,  
 PLACE1003353, PLACE1004128, PLACE1004302, PLACE1004937, PLACE1005243, PLACE1008000,  
 PLACE1008244, PLACE1008650, PLACE1009468, PLACE1009596, PLACE1009708, PLACE1009845,  
 30 PLACE1010926, PLACE1011041, PLACE2000164, PLACE2000371, PLACE3000145, PLACE3000350, THYRO  
 1000072, THYRO1000748, THYRO1001120, Y79AA1000328, Y79AA1002431, HEMBA1001247, NT2RM2001813,  
 NT2RM4001454, NT2RP2005140, NT2RP2005293, NT2RP3000487, NT2RP3003311, PLACE1000972,  
 PLACE1003723, PLACE1005327, PLACE3000124,

**[0064]** The following 321 clones were categorized into transcription-associated proteins.

35 HEMBA1000158, HEMBA1000201, HEMBA1000216, HEMBA1000555, HEMBA1000561, HEMBA1000851,  
 HEMBA1001077, HEMBA1001137, HEMBA1001405, HEMBA1001510, HEMBA1001635, HEMBA1001804,  
 HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1001869, HEMBA1002035, HEMBA1002092,  
 HEMBA1002177, HEMBA1002770, HEMBA1002935, HEMBA1003408, HEMBA1003545, HEMBA1003568,  
 HEMBA1003662, HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321,  
 40 HEMBA1004353, HEMBA1004389, HEMBA1004479, HEMBA1004758, HEMBA1004973, HEMBA1005219,  
 HEMBA1005359, HEMBA1005513, HEMBA1005528, HEMBA1005548, HEMBA1005558, HEMBA1005931,  
 HEMBA1006158, HEMBA1006248, HEMBA1006278, HEMBA1006283, HEMBA1006347, HEMBA1006359,  
 HEMBA1006559, HEMBA1006941, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMBB1001482,  
 HEMBB1001673, HEMBB1001749, HEMBB1001839, HEMBB1001908, HEMBB1002134, HEMBB1002217,  
 45 HEMBB1002342, HEMBB1002607, MAMMA1000183, MAMMA1000388, MAMMA1001105, MAMMA1001222,  
 MAMMA1001260, MAMMA1001627, MAMMA1001633, MAMMA1001743, MAMMA1001820, MAMMA1001837,  
 MAMMA1002617, MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000086, NT2RM1000746,  
 NT2RM1000885, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000452, NT2RM2000735,  
 NT2RM2000740, NT2RM2001035, NT2RM2001105, NT2RM2001575, NT2RM2001670, NT2RM2001716,  
 50 NT2RM2001771, NT2RM2002091, NT2RM4000024, NT2RM4000046, NT2RM4000104, NT2RM4000202,  
 NT2RM4000531, NT2RM4000595, NT2RM4000733, NT2RM4000734,  
 NT2RM4000741, NT2RM4000751, NT2RM4000996, NT2RM4001092, NT2RM4001140, NT2RM4001200,  
 NT2RM4001483, NT2RM4001592, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858,  
 NT2RM4001979, NT2RM4002066, NT2RP1000086, NT2RP1000111, NT2RP1000574, NT2RP1000902,  
 55 NT2RP1001013, NT2RP2000008, NT2RP2000126, NT2RP2000297, NT2RP2000420, NT2RP2001174,  
 NT2RP2001233, NT2RP2001756, NT2RP2001869, NT2RP2002046, NT2RP2002252, NT2RP2002270,  
 NT2RP2002464, NT2RP2002503, NT2RP2002520, NT2RP2002591, NT2RP2002880, NT2RP2002939,  
 NT2RP2002993, NT2RP2003243, NT2RP2003329, NT2RP2003347, NT2RP2003480, NT2RP2003522,

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NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2RP2004066, NT2RP2004187, NT2RP2004920,  
 NT2RP2004961, NT2RP2005003, NT2RP2005139, NT2RP2005325, NT2RP2005496, NT2RP2005701,  
 NT2RP2005722, NT2RP2005776, NT2RP2005942, NT2RP2006238, NT2RP2006436, NT2RP3000050,  
 NT2RP3000320, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP3000603, NT2RP3000605,  
 5 NT2RP3000632, NT2RP3001057, NT2RP3001107, NT2RP3001111, NT2RP3001120, NT2RP3001150,  
 NT2RP3001268, NT2RP3001338, NT2RP3001398, NT2RP3001527, NT2RP3001688, NT2RP3001855,  
 NT2RP3002165, NT2RP3002399, NT2RP3002876, NT2RP3003133, NT2RP3003193, NT2RP3003251,  
 NT2RP3003313, NT2RP3003327, NT2RP3003555, NT2RP3004016, NT2RP3004125, NT2RP3004242,  
 NT2RP3004428, NT2RP3004498, NT2RP3004566, NT2RP3004617, NT2RP4000210, NT2RP4000398,  
 10 NT2RP4000455, NT2RP4000648, NT2RP4000837, NT2RP4000865, NT2RP4000997, NT2RP4001029,  
 NT2RP4001080, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2RP4001551, NT2RP4001568,  
 NT2RP4001638, NT2RP4001753, NT2RP4001760, NT2RP4001790, NT2RP4001838, NT2RP4001938,  
 NT2RP4002078, NT2RP4002081, NT2RP5003461, OVARC1000151, OVARC1000241, OVARC1000479,  
 OVARC1001271, OVARC1001417, OVARC1001436, PLACE1000133, PLACE1000583, PLACE1000706,  
 15 PLACE1000786, PLACE1000979, PLACE1001118, PLACE1001238, PLACE1001294, PLACE1001304,  
 PLACE1001383, PLACE1001602, PLACE1001632, PLACE1002171, PLACE1002438, PLACE1002450,  
 PLACE1002532, PLACE1002775, PLACE1002834, PLACE1003302, PLACE1003605, PLACE1003738,  
 PLACE1003885, PLACE1004471, PLACE1005584, PLACE1005803, PLACE1005966, PLACE1006167,  
 PLACE1006318, PLACE1006438, PLACE1006482, PLACE1007239, PLACE1007346, PLACE1007488,  
 20 PLACE1007547, PLACE1007598, PLACE1007955, PLACE1008132, PLACE1008201, PLACE1009099,  
 PLACE1009246, PLACE1009308, PLACE1009398, PLACE1009798, PLACE1010134, PLACE1010702,  
 PLACE1010771, PLACE1010870, PLACE1011160, PLACE1011433, PLACE1011576, PLACE3000009,  
 PLACE3000169, PLACE3000254, PLACE4000128, PLACE4000156, PLACE4000192, PLACE4000211,  
 PLACE4000261, PLACE4000450, PLACE4000489, THYRO1000085, THYRO1000121, THYRO 1000242, THYRO  
 25 1000488, THYRO 1000501, THYRO 1000569, THYRO1001100, THYRO1001189, THYRO1001809, Y79AA1000013,  
 Y79AA1000033, Y79AA1000037, Y79AA1000342, Y79AA1000627, Y79AA1000705, Y79AA1001299,  
 Y79AA1001312, Y79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001866, Y79AA1002103,  
 Y79AA1002229, Y79AA1002433, Y79AA1002472, Y79AA1002482, HEMBA1003257, NT2RM2000101,  
 NT2RM2001797, NT2RP1000101, NT2RP2002208, NT2RP3001214, NT2RP3003278, NT2RP4001235,  
 30 PLACE1000050, PLACE1001716, PLACE1002499, PLACE1007544,  
**[0065]** The following 392 clones were categorized into disease-associated proteins.  
 HEMBA1000020, HEMBA1000216, HEMBA1000304, HEMBA1000561, HEMBA1000569, HEMBA1000910,  
 HEMBA1001043, HEMBA1001059, HEMBA1001071, HEMBA1001088, HEMBA1001569, HEMBA1001661,  
 HEMBA1001672, HEMBA1001819, HEMBA1001921, HEMBA1002267, HEMBA1002419, HEMBA1002469,  
 35 HEMBA1002547, HEMBA1002555, HEMBA1002810, HEMBA1002939, HEMBA1002997, HEMBA1003148,  
 HEMBA1003369, HEMBA1003417, HEMBA1003418, HEMBA1003433, HEMBA1003538, HEMBA1003555,  
 HEMBA1003568, HEMBA1003569, HEMBA1003581, HEMBA1004168, HEMBA1004202, HEMBA1004248,  
 HEMBA1004275, HEMBA1004321, HEMBA1004353, HEMBA1004356, HEMBA1004479, HEMBA1004509,  
 HEMBA1004669, HEMBA1005009, HEMBA1005338, HEMBA1005367, HEMBA1005423, HEMBA1005528,  
 40 HEMBA1005581, HEMBA1005621, HEMBA1005699, HEMBA1006507, HEMBA1006650, HEMBA1006652,  
 HEMBA1006737, HEMBA1006807, HEMBA1006877, HEMBA1007121, HEMBA1007243, HEMBB1000119,  
 HEMBB1000693, HEMBB1000927, HEMBB1000985, HEMBB1001068, HEMBB1001282, HEMBB1001339,  
 HEMBB1001482, HEMBB1001564, HEMBB1001802, HEMBB1001905, HEMBB1001908, HEMBB1002217,  
 HEMBB1002477, MAMMA1000388, MAMMA1000731, MAMMA1001305, MAMMA1001633, MAMMA1001868,  
 45 MAMMA1002170, MAMMA1002198, MAMMA1002268, MAMMA1002485, MAMMA1002530, MAMMA1002858,  
 MAMMA1002869, MAMMA1002881, MAMMA1003047, MAMMA1003146, MAMMA1003166, NT2RM1000001,  
 NT2RM1000153, NT2RM1000252, NT2RM1000555, NT2RM1000770, NT2RM1000826, NT2RM1000850,  
 NT2RM1001003, NT2RM1001092, NT2RM1001102, NT2RM2000191,  
 NT2RM2000363, NT2RM2000594, NT2RM2000624, NT2RM2000714, NT2RM2000821, NT2RM2001035,  
 50 NT2RM2001575, NT2RM2001652, NT2RM2001664, NT2RM2001668, NT2RM2001698, NT2RM2001803,  
 NT2RM2001839, NT2RM4000155, NT2RM4000471, NT2RM4000486, NT2RM4000657, NT2RM4000751,  
 NT2RM4000996, NT2RM4001629, NT2RM4001810, NT2RM4001819, NT2RM4001865, NT2RM4001876,  
 NT2RM4001940, NT2RM4002066, NT2RM4002093, NT2RM4002146, NT2RM4002161, NT2RM4002323,  
 NT2RM4002558, NT2RM4002571, NT2RP1000086, NT2RP1000574, NT2RP1000738, NT2RP1000825,  
 55 NT2RP1000833, NT2RP1000959, NT2RP1000966, NT2RP1001013, NT2RP1001185, NT2RP1001482,  
 NT2RP1001665, NT2RP2000070, NT2RP2000147, NT2RP2000224, NT2RP2000248, NT2RP2000297,  
 NT2RP2000310, NT2RP2000414, NT2RP2000420, NT2RP2000523, NT2RP2000809, NT2RP2000812,  
 NT2RP2001233, NT2RP2001327, NT2RP2001378, NT2RP2001394, NT2RP2001397, NT2RP2001460,

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|    |   |               |               |               |               |               |
|----|---|---------------|---------------|---------------|---------------|---------------|
|    | NT2RP2001520,   | NT2RP2001536, | NT2RP2001876, | NT2RP2001898, | NT2RP2002025, | NT2RP2002058, |
|    | NT2RP2002124,   | NT2RP2002325, | NT2RP2002503, | NT2RP2002959, | NT2RP2003000, | NT2RP2003157, |
|    | NT2RP2003164,   | NT2RP2003228, | NT2RP2003295, | NT2RP2003517, | NT2RP2003564, | NT2RP2003604, |
|    | NT2RP2003714,   | NT2RP2003737, | NT2RP2003952, | NT2RP2004013, | NT2RP2004170, | NT2RP2004587, |
| 5  | NT2RP2004732,   | NT2RP2004933, | NT2RP2005003, | NT2RP2005144, | NT2RP2005239, | NT2RP2005276, |
|    | NT2RP2005288,   | NT2RP2005315, | NT2RP2005325, | NT2RP2005336, | NT2RP2005358, | NT2RP2005407, |
|    | NT2RP2005436,   | NT2RP2005476, | NT2RP2005525, | NT2RP2005694, | NT2RP2005719, | NT2RP2006043, |
|    | NT2RP2006071,   | NT2RP2006219, | NT2RP2006312, | NT2RP2006456, | NT2RP3000050, | NT2RP3000068, |
|    | NT2RP3000085,   | NT2RP3000299, | NT2RP3000403, | NT2RP3000596, | NT2RP3000739, | NT2RP3000753, |
| 10 | NT2RP3000875,   | NT2RP3001057, | NT2RP3001081, | NT2RP3001216, | NT2RP3001307, | NT2RP3001338, |
|    | NT2RP3001427,   | NT2RP3001428, | NT2RP3001679, | NT2RP3001723, | NT2RP3001855, | NT2RP3001898, |
|    | NT2RP3001969,   | NT2RP3002056, | NT2RP3002062, | NT2RP3002151, | NT2RP3002351, | NT2RP3002399, |
|    | NT2RP3002953,   | NT2RP3002988, | NT2RP3003078, | NT2RP3003251, | NT2RP3003282, | NT2RP3003313, |
|    | NT2RP3003327,   | NT2RP3003409, | NT2RP3003672, | NT2RP3003831, | NT2RP3004016, | NT2RP3004078, |
| 15 | NT2RP3004209,   | NT2RP3004258, | NT2RP3004490, | NT2RP3004534, | NT2RP3004569, | NT2RP3004572, |
|    | NT2RP4000109,   | NT2RP4000367, | NT2RP4000376, | NT2RP4000449, | NT2RP4000855, | NT2RP4000879, |
|    | NT2RP4000925,   | NT2RP4001086, | NT2RP4001126, | NT2RP4001150, | NT2RP4001213, | NT2RP4001276, |
|    | NT2RP4001407,   | NT2RP4001433, | NT2RP4001483, | NT2RP4001575, | NT2RP4001760, | NT2RP4001861, |
|    | NT2RP4002078,   | NT2RP4002791, | OVARC1000014, | OVARC1000139, | OVARC1000520, | OVARC1000722, |
| 20 | OVARC1000771,   | OVARC1000834, | OVARC1001051, | OVARC1001113, | OVARC1001244, | OVARC1001372, |
|    | OVARC1001417,   | OVARC1001496, | OVARC1001506, | OVARC1001577, | OVARC1001726, | OVARC1001766, |
|    | OVARC1001809,   | OVARC1002165, | PLACE1000133, | PLACE1000383, | PLACE1000420, | PLACE1000583, |
|    | PLACE1000588,   | PLACE1001171, | PLACE1001387, | PLACE1001602, | PLACE1002046, | PLACE1002140, |
|    | PLACE1002437,   | PLACE1002474, | PLACE1002685, | PLACE1002782, | PLACE1002834, | PLACE1002908, |
| 25 | PLACE1003045,   | PLACE1003302, | PLACE1003353, | PLACE1003366, | PLACE1003493, | PLACE1003669, |
|    | PLACE1003704,   | PLACE1003903, | PLACE1003968, | PLACE1004183, | PLACE1004197, | PLACE1004277, |
|    | PLACE1004316,   | PLACE1004358, | PLACE1004471, | PLACE1004506, | PLACE1004510, | PLACE1004674, |
|    | PLACE1004777,   | PLACE1004814, | PLACE1005494, | PLACE1006040, | PLACE1006170, | PLACE1006438, |
|    | PLACE1006615,   | PLACE1007140, | PLACE1007239, | PLACE1007257, | PLACE1007511, | PLACE1007598, |
| 30 | PLACE1008177,   | PLACE1008356, | PLACE1008402, | PLACE1008696, | PLACE1009027, | PLACE1009113, |
|    | PLACE1009158,   | PLACE1009444, | PLACE1009524, | PLACE1010529, | PLACE1010870, | PLACE1010896, |
|    | PLACE1011635,   | PLACE1011858, | PLACE1011922, | PLACE2000015, | PLACE2000072, | PLACE2000216, |
|    | PLACE2000399,   | PLACE2000438, | PLACE2000458, | PLACE3000242, | PLACE4000009, | PLACE4000014, |
|    | PLACE4000156,   | PLACE4000369, | SKNMC1000046, | SKNMC1000050, | THYRO1000034, | THYRO1000327, |
| 35 | THYRO1000343,   | THYRO1000358, | THYRO1000501, | THYRO1000662, | THYRO1000684, | THYRO1000748, |
|    | THYRO1000934,   | THYRO1001120, | THYRO1001189, | THYRO1001204, | THYRO1001458, | THYRO1001617, |
|    | THYRO1001671,   | Y79AA1000346, | Y79AA1000469, | Y79AA1000560, | Y79AA1000734, | Y79AA1000782, |
|    | Y79AA1001391,   | Y79AA1001548, | Y79AA1001594, | Y79AA1001711, | Y79AA1001874, | Y79AA1002204, |
|    | Y79AA1002210,   | Y79AA1002258, | Y79AA1002472, | Y79AA1002482, |               |               |
| 40 | [0066] The following 427 clones presumably belong to enzymes and/or metabolism-associated proteins. |               |               |               |               |               |
|    | HEMBA1000012,   | HEMBA1000129, | HEMBA1000141, | HEMBA1000150, | HEMBA1000542, | HEMBA1000852, |
|    | HEMBA1001019,   | HEMBA1001257, | HEMBA1001526, | HEMBA1001620, | HEMBA1001866, | HEMBA1001896, |
|    | HEMBA1002212,   | HEMBA1002513, | HEMBA1002746, | HEMBA1002973, | HEMBA1003046, | HEMBA1003136, |
|    | HEMBA1003179,   | HEMBA1003250, | HEMBA1003291, | HEMBA1003408, | HEMBA1003538, | HEMBA1003679, |
| 45 | HEMBA1003680,   | HEMBA1004199, | HEMBA1004227, | HEMBA1004408, | HEMBA1004509, | HEMBA1004734, |
|    | HEMBA1004768,   | HEMBA1005394, | HEMBA1005513, | HEMBA1005737, | HEMBA1005815, | HEMBA1006031, |
|    | HEMBA1006272,   | HEMBA1006278, | HEMBA1006291, | HEMBA1006309, | HEMBA1006347, | HEMBA1006485, |
|    | HEMBA1006521,   | HEMBA1006624, | HEMBA1006885, | HEMBA1006976, | HEMBA1007121, | HEMBA1007224, |
|    | HEMBA1007243,   | HEMBA1007300, | HEMBA1000083, | HEMBA1000217, | HEMBA1000915, | HEMBA1000947, |
| 50 | HEMBA1001137,   | HEMBA1001346, | HEMBA1001429, | HEMBA1001443, | HEMBA1001915, | HEMBA1001950, |
|    | HEMBA1002042,   | MAMMA1000020, | MAMMA1000085, | MAMMA1000672, | MAMMA1000713, | MAMMA1000841, |
|    | MAMMA1000897,   | MAMMA1001008, | MAMMA1001038, | MAMMA1001059, | MAMMA1001476, | MAMMA1001501, |
|    | MAMMA1002268,   | MAMMA1002470, | MAMMA1002530, | MAMMA1002573, | MAMMA1002619, | MAMMA1002655, |
|    | MAMMA1002671,   | MAMMA1003013, | MAMMA1003035, | NT2RM1000039, | NT2RM1000132, | NT2RM1000153, |
| 55 | NT2RM1000256,   | NT2RM1000280, | NT2RM1000377, | NT2RM1000553, | NT2RM1000648, | NT2RM1000702, |
|    | NT2RM1000894,   | NT2RM1001072, | NT2RM1001115, | NT2RM2000013, | NT2RM2000092, | NT2RM2000322, |
|    | NT2RM2000368,   | NT2RM2000371, | NT2RM2000469, | NT2RM2000504, | NT2RM2000577, | NT2RM2000594, |
|    | NT2RM2000951,   | NT2RM2001238, | NT2RM2001547, | NT2RM2001632, | NT2RM2001664, | NT2RM2001698, |



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|    |  |               |               |               |               |               |
|----|--|---------------|---------------|---------------|---------------|---------------|
|    | NT2RM2001700,  | NT2RM2001730, | NT2RM2001782, | NT2RM2001803, | NT2RM2001886, | NT2RM2001935, |
|    | NT2RM2001997,  | NT2RM2002030, | NT2RM2002128, | NT2RM4000024, | NT2RM4000155, | NT2RM4000344, |
|    | NT2RM4000471,  | NT2RM4000616, | NT2RM4000657, | NT2RM4000712, | NT2RM4000820, | NT2RM4001313, |
|    | NT2RM4001316,  | NT2RM4001444, | NT2RM4001592, | NT2RM4001758, | NT2RM4001819, | NT2RM4001880, |
| 5  | NT2RM4002062,  | NT2RM4002063, | NT2RM4002189, | NT2RM4002213, | NT2RM4002251, | NT2RM4002409, |
|    | NT2RM4002532,  | NT2RM4002623, | NT2RP1000376, | NT2RP1000443, | NT2RP1000522, | NT2RP1000834, |
|    | NT2RP1000947,  | NT2RP1001079, | NT2RP1001185, | NT2RP1001253, | NT2RP1001361, | NT2RP1001543, |
|    | NT2RP2000056,  | NT2RP2000114, | NT2RP2000183, | NT2RP2000248, | NT2RP2000329, | NT2RP2000422, |
| 10 | NT2RP2000448,  | NT2RP2000668, | NT2RP2000710, | NT2RP2000816, | NT2RP2001070, | NT2RP2001392, |
|    | NT2RP2001601,  | NT2RP2001663, | NT2RP2001740, | NT2RP2001748, | NT2RP2001898, | NT2RP2002124, |
|    | NT2RP2002256,  | NT2RP2002609, | NT2RP2002618, | NT2RP2002959, | NT2RP2002993, | NT2RP2003230, |
|    | NT2RP2003286,  | NT2RP2003401, | NT2RP2003506, | NT2RP2003543, | NT2RP2003643, | NT2RP2003702, |
|    | NT2RP2003704,  | NT2RP2003713, | NT2RP2003737, | NT2RP2003840, | NT2RP2003912, | NT2RP2003952, |
|    | NT2RP2004098,  | NT2RP2004239, | NT2RP2004245, | NT2RP2004768, | NT2RP2004791, | NT2RP2004799, |
| 15 | NT2RP2004933,  | NT2RP2005038, | NT2RP2005139, | NT2RP2005162, | NT2RP2005204, | NT2RP2005239, |
|    | NT2RP2005276,  | NT2RP2005344, | NT2RP2005360, | NT2RP2005457, | NT2RP2005498, | NT2RP2005549, |
|    | NT2RP2005557,  | NT2RP2005605, | NT2RP2005635, | NT2RP2005723, | NT2RP2005773, | NT2RP2005775, |
|    | NT2RP2005776,  | NT2RP2005784, | NT2RP2005835, | NT2RP2005942, | NT2RP2006534, | NT2RP2006571, |
|    | NT2RP2006573,  | NT2RP3000031, | NT2RP3000085, | NT2RP3000207, | NT2RP3000359, | NT2RP3000578, |
| 20 | NT2RP3000742,  | NT2RP3000845, | NT2RP3000875, | NT2RP3000917, | NT2RP3001055, | NT2RP3001221, |
|    | NT2RP3001495,  | NT2RP3001898, | NT2RP3001938, | NT2RP3002303, | NT2RP3002351, | NT2RP3002501, |
|    | NT2RP3002602,  | NT2RP3002628, | NT2RP3002663, | NT2RP3003301, | NT2RP3003385, | NT2RP3003490, |
|    | NT2RP3003659,  | NT2RP3003825, | NT2RP3003831, | NT2RP3003846, | NT2RP3003914, | NT2RP3004148, |
|    | NT2RP3004209,  | NT2RP3004378, | NT2RP3004669, | NT2RP3004670, | NT2RP4000259, | NT2RP4000312, |
| 25 | NT2RP4000367,  | NT2RP4000417, | NT2RP4000457, | NT2RP4000657, | NT2RP4000817, | NT2RP4000855, |
|    | NT2RP4000879,  | NT2RP4000927, | NT2RP4000973, | NT2RP4000997, | NT2RP4001041, | NT2RP4001079, |
|    | NT2RP4001095,  | NT2RP4001143, | NT2RP4001219, | NT2RP4001375, | NT2RP4001389, | NT2RP4001483, |
|    | NT2RP4001555,  | NT2RP4001592, | NT2RP4001644, | NT2RP4001730, | NT2RP4001946, | NT2RP4002408, |
|    | NT2RP5003500,  | NT2RP5003522, | OVARC1000013, | OVARC1000060, | OVARC1000139, | OVARC1000288, |
| 30 | OVARC1000309,  | OVARC1000473, | OVARC1000556, | OVARC1000682, | OVARC1000722, | OVARC1000751, |
|    | OVARC1000885,  | OVARC1000915, | OVARC1001107, | OVARC1001713, | OVARC1001762, | OVARC1001809, |
|    | OVARC1001942,  | OVARC1002156, | OVARC1002165, | PLACE1000007, | PLACE1000142, | PLACE1000185, |
|    | PLACE1000213,  | PLACE1000383, | PLACE1000420, | PLACE1000547, | PLACE1000653, | PLACE1000755, |
|    | PLACE1001054,  | PLACE1001062, | PLACE1001672, | PLACE1001692, | PLACE1001748, | PLACE1001781, |
| 35 | PLACE1001817,  | PLACE1001869, | PLACE1001989, | PLACE1002073, | PLACE1002598, | PLACE1002908, |
|    | PLACE1002991,  | PLACE1003174, | PLACE1003176, | PLACE1003709, | PLACE1003885, | PLACE1003888, |
|    | PLACE1003903,  | PLACE1003915, | PLACE1004270, | PLACE1004428, | PLACE1004437, | PLACE1004751, |
|    | PLACE1004804,  | PLACE1004918, | PLACE1005243, | PLACE1005305, | PLACE1005373, | PLACE1005656, |
|    | PLACE1005763,  | PLACE1005804, | PLACE1005953, | PLACE1005955, | PLACE1006011, | PLACE1006469, |
| 40 | PLACE1006534,  | PLACE1006626, | PLACE1006731, | PLACE1006819, | PLACE1006829, | PLACE1006878, |
|    | PLACE1007226,  | PLACE1007416, | PLACE1007649, | PLACE1007706, | PLACE1007729, | PLACE1007954, |
|    | PLACE1007958,  | PLACE1008111, | PLACE1008275, | PLACE1008330, | PLACE1008643, | PLACE1009094, |
|    | PLACE1009130,  | PLACE1009444, | PLACE1009763, | PLACE1009861, | PLACE1009992, | PLACE1009997, |
|    | PLACE1010096,  | PLACE1010362, | PLACE1010481, | PLACE1010662, | PLACE1011046, | PLACE1011219, |
| 45 | PLACE1011229,  | PLACE1011332, | PLACE1011635, | PLACE1011923, | PLACE2000021, | PLACE2000034, |
|    | PLACE2000398,  | PLACE2000404, | PLACE2000438, | PLACE3000009, | PLACE3000020, | PLACE3000059, |
|    | PLACE3000147,  | PLACE3000339, | PLACE3000350, | PLACE4000063, | PLACE4000100, | PLACE4000401, |
|    | PLACE4000548,  | PLACE4000654, | SKNMC1000050, | THYRO1000072, | THYRO1000197, | THYRO1000288, |
|    | THYRO1000605,  | THYRO1000662, | THYRO1000756, | THYRO1000852, | THYRO1000926, | THYRO1000934, |
| 50 | THYRO1000951,  | THYRO1000983, | THYRO1001003, | THYRO1001287, | THYRO1001374, | THYRO1001406, |
|    | THYRO1001617,  | THYRO1001671, | THYRO1001738, | Y79AA1000782, | Y79AA1001048, | Y79AA1001233, |
|    | Y79AA1001394,  | Y79AA1001493, | Y79AA1001548, | Y79AA1001581, | Y79AA1001603, | Y79AA1001827, |
|    | Y79AA1002027,  | Y79AA1002209, | Y79AA1002211, | Y79AA1002361, | Y79AA1002416, | HEMBA1005732, |
|    | MAMMA1000402,  |               |               |               |               |               |
| 55 | [0067] The following 217 clones presumably belong to ATP- and/or GTP-binding proteins. |               |               |               |               |               |
|    | HEMBA1000012,  | HEMBA1000129, | HEMBA1000185, | HEMBA1000491, | HEMBA1000531, | HEMBA1001019, |
|    | HEMBA1001174,  | HEMBA1001387, | HEMBA1001595, | HEMBA1001723, | HEMBA1001913, | HEMBA1002161, |
|    | HEMBA1002212,  | HEMBA1002876, | HEMBA1002997, | HEMBA1003250, | HEMBA1003291, | HEMBA1003369, |

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HEMBA1003555, HEMBA1003560, HEMBA1004131, HEMBA1004199, HEMBA1004202, HEMBA1004354,  
 HEMBA1004697, HEMBA1005047, HEMBA1005595, HEMBA1007018, HEMBA1007151, HEMBB1000083,  
 HEMBB1000226, HEMBB1000264, HEMBB1000632, HEMBB1000725, HEMBB1001294, HEMBB1002193,  
 MAMMA1000085, MAMMA1000612, MAMMA1000731, MAMMA1000738, MAMMA1001038, MAMMA1001735,  
 5 MAMMA1001768, MAMMA1003127, NT2RM1000187, NT2RM1000388, NT2RM1000702, NT2RM1000772,  
 NT2RM1000924, NT2RM2000469, NT2RM2000577, NT2RM2000740, NT2RM2001100, NT2RM2001201,  
 NT2RM2001345, NT2RM2001823, NT2RM2002128, NT2RM4000155, NT2RM4000191, NT2RM4000356,  
 NT2RM4000496, NT2RM4000611, NT2RM4000733, NT2RM4000820, NT2RM4001084, NT2RM4001178,  
 NT2RM4001344, NT2RM4001444, NT2RM4001592, NT2RM4001714, NT2RM4001758, NT2RM4001880,  
 10 NT2RM4002062, NT2RM4002174, NT2RM4002205, NT2RM4002527, NT2RM4002594, NT2RM4002623,  
 NT2RP1000470, NT2RP1000478, NT2RP1000915, NT2RP1000958, NT2RP1001080, NT2RP1001410,  
 NT2RP1001569, NT2RP2000126, NT2RP2000258, NT2RP2000329, NT2RP2000660, NT2RP2000668,  
 NT2RP2000710, NT2RP2000812, NT2RP2000880, NT2RP2001245, NT2RP2001392, NT2RP2002606,  
 NT2RP2003277, NT2RP2003912, NT2RP2004538, NT2RP2004568,  
 15 NT2RP2004689, NT2RP2004768, NT2RP2004791, NT2RP2004920, NT2RP2005344, NT2RP2005393,  
 NT2RP2005763, NT2RP2006534, NT2RP3000046, NT2RP3000252, NT2RP3000350, NT2RP3000359,  
 NT2RP3000366, NT2RP3000397, NT2RP3000759, NT2RP3000845, NT2RP3000875, NT2RP3001150,  
 NT2RP3001427, NT2RP3001453, NT2RP3001529, NT2RP3001730, NT2RP3001799, NT2RP3001857,  
 NT2RP3001938, NT2RP3002007, NT2RP3002151, NT2RP3002330, NT2RP3002399, NT2RP3002671,  
 20 NT2RP3003301, NT2RP3003353, NT2RP3003589, NT2RP3003809, NT2RP3003876, NT2RP3004189,  
 NT2RP3004428, NT2RP3004578, NT2RP4000290, NT2RP4000481, NT2RP4000518, NT2RP4000781,  
 NT2RP4000839, NT2RP4000929, NT2RP4001041, NT2RP4001079, NT2RP4001375, NT2RP4001414,  
 NT2RP4001592, NT2RP4001634, NT2RP4001644, NT2RP4001656, NT2RP4001896, NT2RP4002047,  
 NT2RP4002058, NT2RP4002408, NT2RP5003477, OVARC1000013, OVARC1000304, OVARC1000556,  
 25 OVARC1000771, OVARC1000800, OVARC1001068, OVARC1002138, PLACE1000040, PLACE1000588,  
 PLACE1001104, PLACE1001739, PLACE1002433, PLACE1002437, PLACE1002714, PLACE1003394,  
 PLACE1003521, PLACE1003915, PLACE1004902, PLACE1005243, PLACE1005305, PLACE1005549,  
 PLACE1005739, PLACE1005921, PLACE1006119, PLACE1006196, PLACE1006552, PLACE1006956,  
 PLACE1007409, PLACE1007697, PLACE1007946, PLACE1008244, PLACE1009404, PLACE1009476,  
 30 PLACE1009596, PLACE1009908, PLACE1010134, PLACE1010720, PLACE1010896, PLACE1011109,  
 PLACE1011114, PLACE1011310, PLACE1011922, PLACE2000014, PLACE2000039, PLACE2000274,  
 PLACE2000404, PLACE2000427, PLACE3000350, PLACE4000009, PLACE4000014, PLACE4000326,  
 SKNMC1000013, THYRO1000072, THYRO1001458, Y79AA1000833, Y79AA1000962, Y79AA1001394,  
 Y79AA1001875, Y79AA1001963, Y79AA1002209,  
 35 **[0068]** The following 320 clones presumably belong to nuclear proteins.  
 HEMBA1000005, HEMBA1000158, HEMBA1000216, HEMBA1000561, HEMBA1000591, HEMBA1001088,  
 HEMBA1001137, HEMBA1001405, HEMBA1001510, HEMBA1001579, HEMBA1001809, HEMBA1001819,  
 HEMBA1001824, HEMBA1001847, HEMBA1001869, HEMBA1002177, HEMBA1002241, HEMBA1002495,  
 HEMBA1002569, HEMBA1002935, HEMBA1002951, HEMBA1002999, HEMBA1003408, HEMBA1003545,  
 40 HEMBA1003662, HEMBA1003684, HEMBA1003690, HEMBA1003760, HEMBA1004203, HEMBA1004321,  
 HEMBA1004353, HEMBA1004479, HEMBA1004973, HEMBA1005219, HEMBA1005359, HEMBA1005558,  
 HEMBA1005931, HEMBA1006278, HEMBA1006283, HEMBA1006359, HEMBA1006485, HEMBA1007087,  
 HEMBB1000226, HEMBB1000789, HEMBB1001011, HEMBB1001056, HEMBB1001242, HEMBB1001482,  
 HEMBB1001915, HEMBB1002134, HEMBB1002217, MAMMA1000183, MAMMA1000731, MAMMA1001105,  
 45 MAMMA1001222, MAMMA1001260, MAMMA1001633, MAMMA1001743, MAMMA1001837, MAMMA1002617,  
 MAMMA1002869, MAMMA1002937, MAMMA1003011, NT2RM1000086, NT2RM1000187, NT2RM1000666,  
 NT2RM1000885, NT2RM1000894, NT2RM1001059, NT2RM1001092, NT2RM2000013, NT2RM2000588,  
 NT2RM2000624, NT2RM2000735, NT2RM2000740, NT2RM2001105, NT2RM2001635, NT2RM2001670,  
 NT2RM2001771, NT2RM2001823, NT2RM2001936, NT2RM2001989, NT2RM2002004, NT2RM2002088,  
 50 NT2RM2002091, NT2RM4000024, NT2RM4000046, NT2RM4000104, NT2RM4000202, NT2RM4000215,  
 NT2RM4000290, NT2RM4000531, NT2RM4000751, NT2RM4000996, NT2RM4001092, NT2RM4001140,  
 NT2RM4001200, NT2RM4001483, NT2RM4001566, NT2RM4001592,  
 NT2RM4001597, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979,  
 NT2RP1000035, NT2RP1000111, NT2RP1000493, NT2RP1000574, NT2RP1000630, NT2RP1000902,  
 55 NT2RP1000915, NT2RP1000958, NT2RP1000966, NT2RP1001013, NT2RP1001177, NT2RP2000008,  
 NT2RP2000076, NT2RP2000126, NT2RP2000153, NT2RP2000161, NT2RP2000248, NT2RP2000258,  
 NT2RP2000297, NT2RP2000420, NT2RP2000931, NT2RP2001233, NT2RP2001420, NT2RP2001756,  
 NT2RP2001869, NT2RP2002079, NT2RP2002270, NT2RP2002503, NT2RP2002591, NT2RP2002880,

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|    |               |   |               |               |               |               |
|----|---------------|---|---------------|---------------|---------------|---------------|
|    | NT2RP2002939, | NT2RP2002993,   | NT2RP2003137, | NT2RP2003157, | NT2RP2003277, | NT2RP2003286, |
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|    | NT2RP2004689, | NT2RP2004920,   | NT2RP2005393, | NT2RP2005436, | NT2RP2005496, | NT2RP2005539, |
|    | NT2RP2005701, | NT2RP2005767,   | NT2RP2005776, | NT2RP2005933, | NT2RP2005942, | NT2RP2006043, |
| 5  | NT2RP2006436, | NT2RP3000031,   | NT2RP3000050, | NT2RP3000397, | NT2RP3000512, | NT2RP3000527, |
|    | NT2RP3000590, | NT2RP3000603,   | NT2RP3000632, | NT2RP3000917, | NT2RP3001057, | NT2RP3001107, |
|    | NT2RP3001120, | NT2RP3001253,   | NT2RP3001338, | NT2RP3001384, | NT2RP3001398, | NT2RP3001427, |
|    | NT2RP3001428, | NT2RP3001472,   | NT2RP3001646, | NT2RP3001671, | NT2RP3001792, | NT2RP3001855, |
|    | NT2RP3002056, | NT2RP3002165,   | NT2RP3002399, | NT2RP3002876, | NT2RP3003193, | NT2RP3003212, |
| 10 | NT2RP3003555, | NT2RP3004016,   | NT2RP3004206, | NT2RP3004424, | NT2RP3004428, | NT2RP3004566, |
|    | NT2RP3004617, | NT2RP4000078,   | NT2RP4000111, | NT2RP4000210, | NT2RP4000398, | NT2RP4000481, |
|    | NT2RP4000518, | NT2RP4000997,   | NT2RP4001148, | NT2RP4001206, | NT2RP4001213, | NT2RP4001433, |
|    | NT2RP4001568, | NT2RP4001638,   | NT2RP4001696, | NT2RP4001753, | NT2RP4001938, | NT2RP4002058, |
|    | NT2RP4002078, | NT2RP4002081,   | NT2RP4002791, | OVARC1000006, | OVARC1000087, | OVARC1000091, |
| 15 | OVARC1000241, | OVARC1000326,   | OVARC1000556, | OVARC1000846, | OVARC1001038, | OVARC1001180, |
|    | OVARC1001232, | OVARC1001271,   | OVARC1001306, | OVARC1001436, | OVARC1002112, | PLACE1000133, |
|    | PLACE1000184, | PLACE1000406,   | PLACE1000583, | PLACE1000596, | PLACE1000979, | PLACE1001118, |
|    | PLACE1001383, | PLACE1001632,   | PLACE1002171, | PLACE1002433, | PLACE1002438, | PLACE1002532, |
|    | PLACE1002775, | PLACE1002816,   | PLACE1002834, | PLACE1003100, | PLACE1003190, | PLACE1003302, |
| 20 | PLACE1003519, | PLACE1003521,   | PLACE1003605, | PLACE1003704, | PLACE1003738, | PLACE1003885, |
|    | PLACE1003923, | PLACE1004302,   | PLACE1004471, | PLACE1004564, | PLACE1004814, | PLACE1004902, |
|    | PLACE1005287, | PLACE1005876,   | PLACE1005966, | PLACE1006167, | PLACE1006438, | PLACE1006482, |
|    | PLACE1006829, | PLACE1006878,   | PLACE1006917, | PLACE1007014, | PLACE1007547, | PLACE1007598, |
|    | PLACE1007688, | PLACE1007969,   | PLACE1008044, | PLACE1008132, | PLACE1008603, | PLACE1009099, |
| 25 | PLACE1009130, | PLACE1009308,   | PLACE1009398, | PLACE1010134, | PLACE1010194, | PLACE1010702, |
|    | PLACE1010720, | PLACE1010870,   | PLACE1011056, | PLACE1011433, | PLACE1011664, | PLACE2000014, |
|    | PLACE2000427, | PLACE3000009,   | PLACE3000169, | PLACE4000014, | THYRO4000156, | PLACE4000192, |
|    | PLACE4000261, | PLACE4000326,   | PLACE4000489, | SKNMC1000011, | THYRO1000085, | THYRO1000242, |
|    | THYRO1000585, | THYRO1001100,   | THYRO1001189, | THYRO1001809, | Y79AA1000037, | Y79AA1000214, |
| 30 | Y79AA1000231, | Y79AA1000589,   | Y79AA1000752, | Y79AA1001391, | Y79AA1001613, | Y79AA1001705, |
|    | Y79AA1001963, | Y79AA1002431,   | Y79AA1002472, | Y79AA1002482, |               |               |
|    | [0069]        | The following 296 clones presumably belong to DNA- and/or RNA-binding proteins. |               |               |               | HEMBA1000158, |
|    | HEMBA1000216, | HEMBA1000561,   | HEMBA1000591, | HEMBA1000851, | HEMBA1001088, | HEMBA1001137, |
|    | HEMBA1001405, | HEMBA1001510,   | HEMBA1001804, | HEMBA1001809, | HEMBA1001819, | HEMBA1001847, |
| 35 | HEMBA1001869, | HEMBA1002177,   | HEMBA1002935, | HEMBA1003408, | HEMBA1003545, | HEMBA1003568, |
|    | HEMBA1003591, | HEMBA1003662,   | HEMBA1003684, | HEMBA1003760, | HEMBA1003783, | HEMBA1003805, |
|    | HEMBA1003953, | HEMBA1004321,   | HEMBA1004354, | HEMBA1004389, | HEMBA1004479, | HEMBA1004669, |
|    | HEMBA1004847, | HEMBA1004973,   | HEMBA1005202, | HEMBA1005359, | HEMBA1005931, | HEMBA1006248, |
|    | HEMBA1006278, | HEMBA1006283,   | HEMBA1006359, | HEMBA1006652, | HEMBA1007087, | HEMBA1007194, |
| 40 | HEMBB1000264, | HEMBB1000789,   | HEMBB1001011, | HEMBB1001482, | HEMBB1001736, | HEMBB1001749, |
|    | HEMBB1001839, | HEMBB1002217,   | MAMMA1000183, | MAMMA1000284, | MAMMA1000731, | MAMMA1001105, |
|    | MAMMA1001222, | MAMMA1001260,   | MAMMA1001743, | MAMMA1001837, | MAMMA1002385, | MAMMA1002617, |
|    | MAMMA1002869, | MAMMA1002937,   | MAMMA1003011, | NT2RM1000086, | NT2RM1000539, | NT2RM1000555, |
|    | NT2RM1000666, | NT2   |               |               |               |               |

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NT2RP2006043, NT2RP2006436, NT2RP2006464, NT2RP3000050, NT2RP3000512, NT2RP3000527,  
NT2RP3000562, NT2RP3000590, NT2RP3000603, NT2RP3000624, NT2RP3000632, NT2RP3000994,  
NT2RP3001057, NT2RP3001107, NT2RP3001120, NT2RP3001150, NT2RP3001155, NT2RP3001338,  
NT2RP3001398, NT2RP3001472, NT2RP3001672, NT2RP3001688, NT2RP3001724, NT2RP3001792,  
5 NT2RP3001855, NT2RP3002165, NT2RP3002399, NT2RP3002876, NT2RP3003138, NT2RP3003193,  
NT2RP3003251, NT2RP3003327, NT2RP3003555, NT2RP3004013, NT2RP3004078, NT2RP3004428,  
NT2RP3004490, NT2RP3004566, NT2RP3004594, NT2RP3004617, NT2RP3004618, NT2RP4000111,  
NT2RP4000398, NT2RP4000455, NT2RP4000518, NT2RP4000648, NT2RP4000865, NT2RP4000929,  
NT2RP4001080, NT2RP4001095, NT2RP4001213, NT2RP4001433, NT2RP4001568, NT2RP4001696,  
10 NT2RP4001753, NT2RP4001838, NT2RP4001938, NT2RP4002078, OVARC1000006, OVARC1000087,  
OVARC1000241, OVARC1000746, OVARC1000846, OVARC1001232, OVARC1001271, OVARC1001306,  
OVARC1001987, OVARC1002112, PLACE1000406, PLACE1000583, PLACE1000979, PLACE1001118,  
PLACE1001632, PLACE1001739, PLACE1002438, PLACE1002532, PLACE1002775, PLACE1002834,  
PLACE1003302, PLACE1003519, PLACE1003605, PLACE1003704, PLACE1003738, PLACE1003885,  
15 PLACE1004471, PLACE1004564, PLACE1004814, PLACE1005584, PLACE1005876, PLACE1005951,  
PLACE1006196, PLACE1006482, PLACE1006488, PLACE1006531, PLACE1006917, PLACE1007346,  
PLACE1007547, PLACE1007598, PLACE1007688, PLACE1007969, PLACE1008132, PLACE1009099,  
PLACE1009246, PLACE1009398, PLACE1009476, PLACE1009622, PLACE1010053, PLACE1010194,  
PLACE1010702, PLACE1010870, PLACE1011056, PLACE1011114, PLACE1011433, PLACE2000427,  
20 PLACE3000009, PLACE3000169, PLACE4000014, PLACE4000156, PLACE4000192, PLACE4000261,  
PLACE4000489, SKNMC1000091, THYRO 1000085, THYRO1000242, THYRO1000501, THYRO1001100,  
THYRO1001189, THYRO1001809, Y79AA1000037, Y79AA1000349, Y79AA1000752, Y79AA1001211,  
Y79AA1001312, Y79AA1001391, Y79AA1001613, Y79AA1002103, Y79AA1002472, Y79AA1002482,  
HEMBA1004596, OVARC1000148, PLACE1003334, THYRO1001661,  
25 **[0070]** The following 66 clones presumably belong to the category of RNA synthesis-associated proteins.  
HEMBA1000591, HEMBA1001579, HEMBA1003179, HEMBA1003591, HEMBA1006278, HEMBB1000226,  
NT2RM1000187, NT2RM1000852, NT2RM2000624, NT2RM2001989, NT2RM2002100, NT2RM4000191,  
NT2RM40001178, NT2RM4002093, NT2RP1000035, NT2RP1000272, NT2RP1000470, NT2RP1001080,  
NT2RP2000153, NT2RP2002928, NT2RP2003157, NT2RP2004568, NT2RP2005126, NT2RP2005436,  
30 NT2RP2005539, NT2RP2005605, NT2RP2005776, NT2RP2005942, NT2RP2006043, NT2RP2006238,  
NT2RP3000361, NT2RP3000397, NT2RP3001671, NT2RP3004504, NT2RP4000078, NT2RP4000111,  
NT2RP4000481, NT2RP4000518, NT2RP4000614, NT2RP4000929, NT2RP4001696, NT2RP4002058,  
OVARC1001232, OVARC1001577, PLACE1000406, PLACE1000596, PLACE1000755, PLACE1001739,  
PLACE1003704, PLACE1003885, PLACE1004564, PLACE1004814, PLACE1004902, PLACE1005373,  
35 PLACE1005646, PLACE1005876, PLACE1006196, PLACE1006626, PLACE1006878, PLACE1006917,  
PLACE1009476, PLACE1009925, PLACE1010194, PLACE1011114, THYRO1000121, Y79AA1001963,  
**[0071]** The following 184 clones presumably belong to protein synthesis- and/or protein transport-associated pro-  
teins.  
HEMBA1000012, HEMBA1000141, HEMBA1000592, HEMBA1003617, HEMBA1003773, HEMBA1004202,  
40 HEMBA1004276, HEMBA1004734, HEMBA1004847, HEMBA1004929, HEMBA1004930, HEMBA1005047,  
HEMBA1005202, HEMBA1006031, HEMBA1006272, HEMBA1006474, HEMBA1006652, HEMBA1006914,  
HEMBA1006973, HEMBA1007224, HEMBB1000915, HEMBB1001112, HEMBB1001137, HEMBB1001736,  
HEMBB1001831, HEMBB1001915, MAMMA1000085, MAMMA1000734, MAMMA1001008, MAMMA1002170,  
MAMMA1002219, MAMMA1002236, MAMMA1002619, NT2RM1000661, NT2RM1000833, NT2RM2000092,  
45 NT2RM2000504, NT2RM2000577, NT2RM2000821, NT2RM2001201, NT2RM2001592, NT2RM2001613,  
NT2RM2001648, NT2RM2001730, NT2RM2001760, NT2RM2002055, NT2RM4000155, NT2RM4000169,  
NT2RM4000344, NT2RM4000356, NT2RM4000421, NT2RM4000712, NT2RM4001054, NT2RM4001203,  
NT2RM4001382, NT2RM4001444, NT2RM4002062, NT2RM4002205, NT2RM4002623, NT2RP1000326,  
NT2RP1000522, NT2RP1000547, NT2RP1000746, NT2RP1000947, NT2RP1001569, NT2RP2000147,  
50 NT2RP2000710, NT2RP2000880, NT2RP2000943, NT2RP2001290, NT2RP2001392, NT2RP2001601,  
NT2RP2001613, NT2RP2001660, NT2RP2001740, NT2RP2002124, NT2RP2002606, NT2RP2002862,  
NT2RP2002959, NT2RP2002980, NT2RP2003137, NT2RP2003158, NT2RP2003391, NT2RP2003394,  
NT2RP2003401, NT2RP2003433, NT2RP2003704, NT2RP2003713, NT2RP2003737, NT2RP2003760,  
NT2RP2003981, NT2RP2004366, NT2RP2004389, NT2RP2004791, NT2RP2005012, NT2RP2005116,  
55 NT2RP2005360, NT2RP2005763, NT2RP2005784, NT2RP3000366,  
NT2RP3000759, NT2RP3000968, NT2RP3001113, NT2RP3001690, NT2RP3002045, NT2RP3002151,  
NT2RP3002529, NT2RP3002671, NT2RP3003301, NT2RP3003846, NT2RP3003876, NT2RP3004209,  
NT2RP4000370, NT2RP4000457, NT2RP4000879, NT2RP4000927, NT2RP4001041, NT2RP4001117,

- NT2RP4001313, NT2RP4001315, NT2RP4001574, NT2RP4001592, OVARC1000013, OVARC1000071,  
 OVARC1000085, OVARC1000465, OVARC1000564, OVARC1000771, OVARC1000862, OVARC1001171,  
 OVARC1001180, OVARC1001342, PLACE1000007, PLACE1000061, PLACE1000081, PLACE1000492,  
 PLACE1000863, PLACE1001092, PLACE1001748, PLACE1002090, PLACE1003174, PLACE1003915,  
 5 PLACE1004104, PLACE1004270, PLACE1004743, PLACE1005557, PLACE1005813, PLACE1006170,  
 PLACE1006488, PLACE1006829, PLACE1007706, PLACE1007729, PLACE1008273, PLACE1008402,  
 PLACE1008790, PLACE1008813, PLACE1009094, PLACE1009130, PLACE1009477, PLACE1009721,  
 PLACE1009845, PLACE1010074, PLACE1010547, PLACE1011109, PLACE1011229, PLACE1011477,  
 PLACE1012031, PLACE2000404, PLACE3000059, PLACE3000121, PLACE4000269, PLACE4000654,  
 10 SKNMC1000011, THYRO1000983, THYRO1001003, THYRO1001313, Y79AA1000560, Y79AA1000784,  
 Y79AA1000968, Y79AA1001493, Y79AA1001875, Y79AA1002027, Y79AA1002209, HEMBA1006284,  
**[0072]** The following 130 clones presumably belong to cytoskeleton-associated proteins.  
 HEMBA1000156, HEMBA1000168, HEMBA1000411, HEMBA1000588, HEMBA1001043, HEMBA1001651,  
 HEMBA1001661, HEMBA1002102, HEMBA1002161, HEMBA1002939, HEMBA1003235, HEMBA1003581,  
 15 HEMBA1004499, HEMBA1004534, HEMBA1004697, HEMBA1004929, HEMBA1004972, HEMBA1005582,  
 HEMBA1005595, HEMBA1006344, HEMBA1006737, HEMBB1001175, HEMBB1001282, HEMBB1001562,  
 HEMBB1001802, MAMMA1000824, MAMMA1001041, MAMMA1001576, MAMMA1001679, MAMMA1001735,  
 MAMMA1002297, MAMMA1002351, MAMMA1002622, MAMMA1002637, MAMMA1003127, NT2RM1000850,  
 NT2RM1000898, NT2RM2000030, NT2RM2000260, NT2RM2000691, NT2RM2001324, NT2RM4000169,  
 20 NT2RM4000229, NT2RM4000515, NT2RM4001217, NT2RP1000202, NT2RP1000348, NT2RP1000460,  
 NT2RP1000478, NT2RP1001033, NT2RP1001294, NT2RP1001302, NT2RP2000070, NT2RP2000812,  
 NT2RP2000814, NT2RP2001168, NT2RP2001245, NT2RP2001634, NT2RP2001900, NT2RP2003307,  
 NT2RP2003394, NT2RP2004041, NT2RP2004242, NT2RP2004538, NT2RP2004587, NT2RP2004681,  
 NT2RP2004732, NT2RP2004978, NT2RP2005491, NT2RP2005531, NT2RP2005712, NT2RP2006275,  
 25 NT2RP3000753, NT2RP3001113, NT2RP3001216, NT2RP3001239, NT2RP3001272, NT2RP3001554,  
 NT2RP3001690, NT2RP3001799, NT2RP3002688, NT2RP3003061, NT2RP3003185, NT2RP3003230,  
 NT2RP3004569, NT2RP3004578, NT2RP4001004, NT2RP4001086, NT2RP4001256, NT2RP4001567,  
 NT2RP4001927, OVARC1000001, OVARC1000106, OVARC1000437, OVARC1000520, OVARC1000679,  
 OVARC1001731, OVARC1002050, PLACE1001104, PLACE1002571,  
 30 PLACE1002591, PLACE1002655, PLACE1002714, PLACE1003625, PLACE1005287, PLACE1006552,  
 PLACE1007946, PLACE1008426, PLACE1010148, PLACE1010547, PLACE1010743, PLACE1010896,  
 PLACE1010960, PLACE1011310, PLACE1011922, PLACE2000216, PLACE2000274, PLACE2000371,  
 PLACE2000458, PLACE3000145, PLACE3000416, PLACE4000009, THYRO1000132, THYRO1001405,  
 THYRO1001458, Y79AA1000368, Y79AA1000794, Y79AA1000833, Y79AA1000962, Y79AA1002208,  
 35 **[0073]** The following 54 clones presumably belong to cell division-associated and/or cell proliferation-associated  
 proteins.  
 HEMBA1001019, HEMBA1001595, HEMBA1002363, HEMBA1002997, HEMBA1003136, HEMBA1003369,  
 HEMBA1004131, HEMBA1004354, HEMBA1005621, HEMBB1000037, HEMBB1000264, MAMMA1001768,  
 MAMMA1002769, NT2RM1000354, NT2RM1000430, NT2RM1000874, NT2RM2001256, NT2RM2001743,  
 40 NT2RM2001896, NT2RM2002145, NT2RM4000215, NT2RM4001714, NT2RP1000163, NT2RP1000333,  
 NT2RP1000439, NT2RP2000346, NT2RP2001397, NT2RP2002595, NT2RP2003177, NT2RP2003596,  
 NT2RP2003912, NT2RP2004396, NT2RP2005037, NT2RP2005520, NT2RP2005669, NT2RP2005835,  
 NT2RP3001730, NT2RP3002081, NT2RP4000210, NT2RP4000415, NT2RP4001414, NT2RP4001634,  
 OVARC1000013, OVARC1000937, PLACE1001383, PLACE1002433, PLACE1004316, PLACE1005287,  
 45 PLACE1008808, PLACE1010720, PLACE1010833, Y79AA1000748, Y79AA1001236, Y79AA1001394  
**[0074]** The following 36 clones presumably belong to the category of embryogenesis- and/or development-associ-  
 ated proteins:  
 HEMBA1000518, HEMBA1001847, HEMBA1001869, HEMBA1003545, HEMBA1004973, HEMBB1002442,  
 MAMMA1001837, NT2RM2001670, NT2RM4000046, NT2RM4000531, NT2RM4001140, NT2RM4001858,  
 50 NT2RP2002078, NT2RP2004187, NT2RP2006436, NT2RP3000603, NT2RP3000994, NT2RP3001580,  
 NT2RP3001708, NT2RP3003071, NT2RP3004472, NT2RP3004617, NT2RP4000246, NT2RP4001567,  
 OVARC1000304, OVARC1000746, PLACE1000793, PLACE1002532, PLACE1003258, PLACE1003625,  
 PLACE1004460, PLACE1009622, PLACE4000558, THYRO1000085, Y79AA1001391, Y79AA1001692  
**[0075]** The following 30 clones presumably belong to cellular defense-associated proteins.  
 55 HEMBA1000005, HEMBA1000531, HEMBA1003417, HEMBA1006253, NT2RM4000354, NT2RM4001880,  
 NT2RP1000333, NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2000809, NT2RP2001536,  
 NT2RP2002464, NT2RP2004920, NT2RP2005037, NT2RP3000590, NT2RP3001426, NT2RP3002062,  
 NT2RP3002785, NT2RP3004262, NT2RP4001555, NT2RP4001638, PLACE1006958, PLACE1008275,

PLACE1009113, PLACE1011858, PLACE4000014, THYRO1000684, Y79AA1002139, Y79AA1002229

**[0076]** Although it is unclear whether or not 261 clones out of clones other than the above-mentioned clones belong to any of the above-described categories, these clones are predicted to have some functions, based on the homology search using their full-length sequences.

5 HEMBA1000030, HEMBA1000307, HEMBA1000333, HEMBA1000488, HEMBA1000523, HEMBA1001197,  
HEMBA1001302, HEMBA1001455, HEMBA1001675, HEMBA1001714, HEMBA1001744, HEMBA1001967,  
HEMBA1002151, HEMBA1002215, HEMBA1002458, HEMBA1002777, HEMBA1003098, HEMBA1003199,  
HEMBA1003615, HEMBA1003836, HEMBA1004295, HEMBA1004573, HEMBA1004604, HEMBA1004795,  
HEMBA1005101, HEMBA1005201, HEMBA1005206, HEMBA1005530, HEMBA1005666, HEMBA1005990,  
10 HEMBA1006268, HEMBA1006398, HEMBA1006445, HEMBA1007174, HEMBA1007251, HEMBB1000036,  
HEMBB1000144, HEMBB1000973, HEMBB1001058, HEMBB1001234, HEMBB1001288, HEMBB1001331,  
HEMBB1001384, HEMBB1002266, HEMBB1002510, HEMBB1002705, MAMMA1000055, MAMMA1000625,  
MAMMA1001075, MAMMA1001181, MAMMA1001259, MAMMA1001730, MAMMA1002143, MAMMA1002699,  
MAMMA1002972, MAMMA1003113, NT2RM1000118, NT2RM1000186, NT2RM1000244, NT2RM1000421,  
15 NT2RM1000499, NT2RM1000623, NT2RM1000883, NT2RM2000502, NT2RM2000599, NT2RM2000718,  
NT2RM2001065, NT2RM2001196, NT2RM2001983, NT2RM2002109, NT2RM2002142, NT2RM4000030,  
NT2RM4000139, NT2RM4000156, NT2RM4000386, NT2RM4000590, NT2RM4001047, NT2RM4001155,  
NT2RM4001256, NT2RM4001320, NT2RM4001340, NT2RM4001347, NT2RM4001371, NT2RM4001582,  
NT2RM4001611, NT2RM4001731, NT2RM4001969, NT2RM4002034, NT2RM4002075, NT2RM4002226,  
20 NT2RP1000040, NT2RP1000363, NT2RP1000481, NT2RP1000513, NT2RP1000733, NT2RP1000860,  
NT2RP1000954, NT2RP1001011, NT2RP1001395, NT2RP1001457,  
NT2RP1001494, NT2RP2000054, NT2RP2000067, NT2RP2000133, NT2RP2000157, NT2RP2000764,  
NT2RP2000965, NT2RP2001839, NT2RP2001883, NT2RP2001976, NT2RP2001985, NT2RP2002185,  
NT2RP2002442, NT2RP2002727, NT2RP2002741, NT2RP2002986, NT2RP2003121, NT2RP2003265,  
25 NT2RP2003272, NT2RP2003857, NT2RP2003871, NT2RP2004425, NT2RP2004476, NT2RP2004710,  
NT2RP2004816, NT2RP2005441, NT2RP2005490, NT2RP2005620, NT2RP2005654, NT2RP2005675,  
NT2RP2005753, NT2RP2005841, NT2RP2006598, NT2RP3000047, NT2RP3000233, NT2RP3000868,  
NT2RP3000869, NT2RP3001399, NT2RP3001407, NT2RP3001457, NT2RP3001587, NT2RP3001712,  
NT2RP3001819, NT2RP3001854, NT2RP3001931, NT2RP3002273, NT2RP3002631, NT2RP3002682,  
30 NT2RP3002770, NT2RP3002818, NT2RP3002948, NT2RP3002972, NT2RP3003032, NT2RP3003290,  
NT2RP3003411, NT2RP3003491, NT2RP3003500, NT2RP3003726, NT2RP3004348, NT2RP3004507,  
NT2RP4000129, NT2RP4000498, NT2RP4000528, NT2RP4000737, NT2RP4000979, NT2RP4001010,  
NT2RP4001207, NT2RP4001228, NT2RP4001260, NT2RP4001339, NT2RP4001351, NT2RP4001474,  
NT2RP4001966, NT2RP4002018, OVARC1000209, OVARC1000876, OVARC1001065, OVARC1001092,  
35 OVARC1001419, OVARC1001555, OVARC1001711, OVARC1001943, PLACE1000004, PLACE1000066,  
PLACE1000610, PLACE1000636, PLACE1000769, PLACE1000987, PLACE1001036, PLACE1001845,  
PLACE1001920, PLACE1002665, PLACE1003602, PLACE1003611, PLACE1004256, PLACE1004550,  
PLACE1004868, PLACE1004930, PLACE1005052, PLACE1005102, PLACE1005176, PLACE1005187,  
PLACE1005331, PLACE1005727, PLACE1006003, PLACE1006335, PLACE1006385, PLACE1006506,  
40 PLACE1007105, PLACE1007537, PLACE1007705, PLACE1007791, PLACE1007897, PLACE1008080,  
PLACE1008368, PLACE1008398, PLACE1008465, PLACE1008627, PLACE1009020, PLACE1009060,  
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PLACE1011185, PLACE1011340, PLACE1011586, PLACE2000246, PLACE2000411, PLACE3000477,  
45 THYRO1000173, THYRO1000401, THYRO1000666, THYRO1001033, THYRO1001347, THYRO1001656,  
THYRO1001703, THYRO1001721, Y79AA1000059, Y79AA1000181, Y79AA1000268, Y79AA1000313,  
Y79AA1000540, Y79AA1000966, Y79AA1000985, Y79AA1001323, Y79AA1001402, Y79AA1001679,  
Y79AA1001923, Y79AA1002083, Y79AA1002307, Y79AA1002311, Y79AA1002487,

**[0077]** In some cases, the predicted functions based on the partial sequences are different from those based on the full-length sequences. The reason is that a protein does not always belong solely to a single category of the above-described functional categories, and therefore, a protein may belong to two or more of the predicted functional categories. Besides, additional functions can be found for the clones classified into these functional categories by further analyses.

**[0078]** Since the protein encoded by clones of the invention contains full-length amino acid sequence, it is possible to analyze its biological activity, and its effect on cellular conditions such as cell proliferation and differentiation by expressing the protein as a recombinant protein using an appropriate expression system, injecting the recombinant into the cell, or raising a specific antibody against the protein.

**[0079]** If the protein is a secretory protein, membrane protein, or protein associated with glycoprotein, signal trans-

duction, or transcription, its biological activity can be analyzed by the methods in "Gene Transcription" (Hames B.D., and Higgins S.J. edit, (1993)), "Glycobiology" (Fukuda M., and Kobata A. edit, (1993)), "Growth Factors" (McKay I., and Leigh I. edit, (1993)), "Extracellular Matrix" (Haralson M.A., and Hassell J.R. edit, (1995)), "Transcription Factors" (Latchman D.S. edit, (1993)), "Signal Transduction" (Milligans G. edit, (1992)), "Protein Phosphorylation" (Hardies G. D. edit, (1993)), and "Ion Channels" (Ashley R.H. edit, (1995)) featured in "The Practical Approach Series" (IRL PRESS), or "Signal Transduction Protocols" (Kendall D.A., and Hill S.J. edit, (1995)), "Glycoprotein Analysis in Biomedicine" (Hounsell E.F. edit, (1993)), featured in "Method in Molecular Biology" (Humana Press).

**[0080]** As to a protein associated with a disease, it is possible to perform a functional analysis as described above, but also possible to analyze correlation between the expression or the activity of the protein and a certain disease by using a specific antibody that is obtained by using expressed protein. Alternatively, it is possible to utilize the database Online Mendelian Inheritance in Man (OMIM) (<http://www.ncbi.nlm.nih.gov/Omim/>), which is a database of human genes and diseases, to analyze the protein.

New information is constantly being deposited in the OMIM database. Therefore, it is possible for one skilled in the art to find a new relationship between a particular disease and a gene of the present invention in the most up-to-date database.

**[0081]** Also, as for a secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., search of the OMIM with the following keywords resulted in the finding that the proteins are associated with many diseases (the result of the OMIM search for secrete and membrane proteins is shown below). Also, association between proteins associated to signal transduction or transcription and diseases is reported in "Transcription Factor Research-1999" (Fujii, Tamura, Kageyama, and Satake edit, (1999) Jikken-Igaku Zoukan, Vol.17, No.3), and "Gene Medicine" ((1999) Vol.3, No.2). For example, in tumors, many proteins have been shown to play a role, including secretory proteins, membrane proteins, and proteins associated with signal transduction, glycoprotein, and transcription, and also proteins associated with metabolism, cytoskeleton, and cell cycle, as described in "Tumor Biology" (Matsubara S. (1992) Syoukabou Life Science series). Thus, besides the proteins associated with diseases, many proteins described above are also potentially associated with diseases, and thus useful as a target in the medicinal industry.

**[0082]** The result of the OMIM search for secretory and membrane proteins is shown below, in which the keywords,

- (1) secretion protein,
- (2) membrane protein,
- (3) channel, and
- (4) extracellular matrix were used.

**[0083]** Shown in the search result are only the accession numbers in the OMIM. Using the number, data showing the relationship between a disease and a gene or protein can be seen. The OMIM data has been renewed everyday.

#### 1) Secretion protein

268 entries found, searching for "secretion protein"

104760, 176860, 160900, 107400, 118910, 139320, 603850, 147572, 176880, 600946, 603215, 157147, 600174, 151675, 170280, 179512, 179513, 138120, 179509, 246700, 179510, 600626, 179511, 600998, 109270, 601489, 154545, 179490, 185860, 603216, 122559, 601746, 147290, 602672, 146770, 603062, 179508, 131230, 601591, 602421, 139250, 167805, 167770, 600041, 600564, 118825, 601146, 300090, 600753, 601652, 600759, 600768, 602434, 182590, 603166, 308230, 602534, 603489, 107470, 150390, 104610, 173120, 158106, 143890, 306900, 308700, 134797, 137350, 227500, 176300, 107730, 600760, 138079, 120180, 120160, 120150, 124092, 138160, 101000, 227600, 600509, 601199, 142410, 104311, 193400, 201910, 107300, 122560, 272800, 217000, 590050, 147670, 133170, 176730, 300300, 134370, 274600, 120140, 162151, 158070, 152790, 120120, 106100, 300200, 192340, 190160, 138040, 147470, 147620, 173350, 147380, 152200, 152760, 157145, 153450, 264080, 113811, 600937, 600840, 188545, 202110, 600514, 186590, 603372, 136435, 137241, 252800, 214500, 207750, 138850, 139191, 142640, 138130, 189907, 603692, 600633, 603355, 107270, 600377, 147892, 232200, 600281, 232800, 602358, 137035, 601771, 601769, 253200, 601933, 118444, 600270, 120700, 600945, 603732, 147660, 600761, 172400, 600823, 600877, 130080, 171060, 107740, 307800, 602843, 130660, 152780, 124020, 601124, 601340, 601604, 601610, 171050, 312060, 232700, 300159, 142703, 600734, 125255, 168450, 123812, 188540, 147940, 188450, 600839, 182452, 188400, 182280, 176760, 263200, 600264, 188826, 252650, 601185, 162641, 137216, 601398, 601538, 118888, 118445, 601745, 190180, 601922, 182098, 602008, 147440, 602384, 600031, 109160, 602663, 151670, 602682, 602730, 602779, 146880, 603061, 142704, 603140, 106150, 600732, 153620, 603318, 139392, 600042, 102200, 603493, 182100, 264300, 603795, 184600

#### 2) Membrane protein

1017 entries found, searching for "membrane protein"

# EP 1 074 617 A2

130500, 305360, 153330, 173610, 170995, 109270, 170993, 309060, 120920, 602333, 133740, 133710, 602690, 133730, 159430, 600897, 133090, 601178, 602413, 602003, 109280, 603237, 602173, 107776, 602334, 125305, 602335, 182879, 154045, 309845, 600594, 603718, 603241, 603214, 603657, 603177, 600182, 601476, 602879, 136950, 600723, 601114, 185880, 185881, 300096, 602257, 160900, 177070, 603062, 603344, 602977, 310200, 600959, 300100, 186945, 600039, 600267, 128240, 182900, 601097, 136430, 600946, 602534, 601047, 143450, 603141, 603700, 600579, 256540, 159440, 602414, 600403, 602048, 188860, 137290, 158343, 184756, 602910, 603179, 600279, 108733, 107770, 173335, 602625, 154050, 219800, 603850, 601028, 600447, 104225, 186946, 601767, 603143, 121015, 603215, 227400, 603735, 600179, 602421, 180721, 176801, 176860, 600753, 603142, 176790, 600266, 601239, 115501, 143890, 121014, 121011, 125950, 603534, 304040, 601134, 600754, 601510, 601595, 190315, 300172, 602216, 602261, 602262, 602461, 131560, 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3) Channel (member of membrane protein)

272 entries found, searching for "channel"

176266, 600724, 170500, 182390, 123825, 114208, 114205, 601784, 114206, 600937, 114204, 603415, 600053, 114209, 114207, 600760, 118425, 601011, 192500, 176261, 600761, 176260, 600359, 600228, 600877, 602235, 300008, 182389, 182391, 601328, 601534, 600504, 602323, 601958, 602780, 602781, 601327, 601012, 600734, 603208, 182392, 603220, 603219, 603888, 600054, 602232, 601745, 603537, 602604, 603796, 302910, 602866, 601013, 602905, 602906, 600163, 152427, 180901, 600702, 600308, 602754, 107776, 602024, 314555, 601949, 600235, 602023, 176263, 600681, 176265, 193245, 603305, 176258, 602983, 601219, 601141, 176267, 602343, 602726, 138253, 176262, 600003, 600397, 602872, 138249, 600843, 600935, 600580, 600845, 602158, 602106, 176264, 300110, 176257, 602717, 603493, 176268, 600932, 602727, 138254, 603652, 300138, 602420, 600570, 600150, 603583, 602345, 603749, 601142, 176256, 600846, 138252, 602982, 603787, 602836, 603788, 602566, 603651, 602421, 100690, 107777, 100725, 100710, 600509, 603061, 154275, 304040, 154276, 180902, 121014, 602368, 139311, 601383, 108745, 601313, 601042, 600131, 186360, 600109, 600229, 600170, 603319, 601485, 118503, 180903, 602076, 124030, 601059, 601212, 601218, 147450, 600855, 600919, 601154, 601157, 171060, 600968, 182139, 131230, 121015, 600421, 113730, 249210, 310500, 600637, 125950, 118800, 156490, 602974, 104610, 121011, 602522, 118504, 300041, 160900, 601382, 602103, 600465, 602014, 600442, 601109, 602481, 277900, 254210, 138247, 164920, 170280, 171050, 128100, 173910, 600884, 123885, 602887, 600232, 180297, 137192, 600304, 138251, 603053, 300103, 603152, 603199, 118511, 118508, 138079, 600983, 182307, 603324, 305990, 603418, 114080, 232200, 600046, 600040, 602403, 603750, 603785, 104210, 600019, 600300, 182860, 603852, 603853, 603855, 516060

4) Extracellular matrix

167 entries found, searching for "extracellular matrix"

603479, 602201, 601418, 601548, 154870, 115437, 602285, 602262, 602261, 134797, 600754, 120361, 116935, 602263, 603320, 601807, 603321, 185250, 185261, 253700, 128239, 120324, 193300, 276901, 308700, 600514, 600261, 602109, 120140, 120150, 147557, 193400, 600536, 188826, 120180, 118661, 120320, 152200, 135821, 112260, 230740, 602090, 155760, 192975, 190182, 602108, 601463, 186745, 600900, 600985, 600758, 602369, 179590, 601211, 600065, 602178, 600262, 182888, 182889, 151510, 182120, 150325, 190181, 150370, 186355, 193065, 165070, 154705, 147559, 146650, 146640, 153619, 175100, 187380, 231050, 188060, 135820, 156790, 130660, 301870, 128240, 600076, 600119, 193210, 600215, 600245, 121010, 150240, 600309, 600491, 222600, 120328, 600564, 600596, 600616, 600700, 600742, 120325, 138297, 600930, 156225, 601028, 601050, 601105, 253800, 601284, 601313, 120280, 310200, 601492, 120250, 601587, 601636, 601652, 601692, 601728, 120220, 601915, 602048, 155120, 310300, 120210, 120165, 120120, 118940, 116930, 602264, 116806, 602366, 120470, 602415, 602428, 602453, 602505, 602574, 603005, 603196, 603221, 603319, 107269, 216550, 103320, 603489, 603551, 603767, 603799, 603842

**[0084]** There are several methods for analyzing the expression levels of genes associated with diseases. Differences in gene expression levels between diseased and normal tissues are studied by the analytical methods, for example, Northern hybridization and differential display. Other examples include a method with high-density cDNA filter, a method with DNA microarray and methods with PCR amplification (Experimental Medicine, Vol.17, No. 8, 980-1056 (1999); Cell Engineering (additional volume) DNA Microarray and Advanced PCR Methods, Muramatsu & Naba (eds.), Shun-jun-sya). The varying levels of gene expression between diseased tissues and normal tissues can be studied by any of these analytical methods. When explicit difference in the expression level is observed for a gene, it can be concluded that the gene is closely associated with a disease or disorder. Instead of diseased tissues, cultured cells can be used

for the assessment. Similarly, when gene expression is explicitly different between normal cells and cells reproducing disease-associated specific features, it can be concluded that the gene is closely associated with a disease or disorder. When the expression levels of genes are evidently varied during major cellular events (such as differentiation and apoptosis), the genes are involved in the cellular events and accordingly are candidates for disease- and/or disorder-associated genes. Further, genes exhibiting tissue-specific expression are genes playing important parts in the tissue functions and, therefore, can be candidates for genes associated with diseases and/or disorders affecting the tissues.

[0085] For example, non-enzymic protein glycation reaction is believed to be a cause for a variety of chronic diabetic complications. Accordingly, genes of which expression levels are elevated or decreased in a glycosylated protein-dependent manner in the endothelial cells, are associated with diabetic complications caused by glycosylated proteins (Diabetes 1996, 45 (Suppl. 3), S67-S72; Diabetes, 1997, 46 (Suppl. 2), S19-S25).

The onset of rheumatoid arthritis is thought to be involved in the proliferation of synovial cells covering inner surfaces of joint cavity and in inflammatory reaction resulted from the action of cytokines produced by leukocytes infiltrating into the joint synovial tissues (Rheumatism Information Center, <http://www.rheuma-net.or.jp/>). Recent studies have also revealed that tissue necrosis factor (TNF)- $\alpha$  participates in the onset (Current opinion in immunology 1999, 11, 657-662). When the expression of a gene exhibits responsiveness to the action of TNF on synovial cells, the gene is considered to be involved in rheumatoid arthritis. Many genes acting at the downstream of TNF- $\alpha$  and IL-1 $\beta$  among inflammation-associated cytokines have been previously identified. The respective stimulations are transduced through independent pathways of signaling cascade. There exists another signaling cascade for both stimulations, wherein NF- $\kappa$  B is a common transducing molecule shared by the two stimulations (J. Leukoc. Biol., 1994, 56(5): 542-547). It has also been revealed that many inflammation-associated genes, including IL-2, IL-6 and G-CSF, are varied in the expression levels thereof in response to the signal through the common pathway (Trend Genet. 1999, 15(6): 229-235). It is assumed that genes of which expression levels are varied in response to the stimulation of TNF- $\alpha$  or IL-1 $\beta$  also participate in inflammation.

[0086] Ultraviolet radiation damage has been recognized as a risk factor for skin cancers, etc. (United States Environmental Protection Agency: Ozone Depletion Home Page, <http://www.epa.gov/ozone/>). Genes of which expression levels are varied in skin epidermal cells exposed to ultraviolet rays are considered to be associated with ultraviolet radiation damage of skin. In addition, genes associated with neural differentiation can be candidates for genes responsible for neurological diseases as well as candidates for genes usable for treating the diseases.

[0087] Clones exhibiting differences in the expression levels thereof can be selected by using gene expression analysis. The selection comprises, for example; analyzing cDNA clones by using high-density cDNA filter; and statistically treating the multiple signal values (signal values of radioisotope in the labeled probes or values obtained by measuring fluorescence intensities emitted from the fluorescent labels) for the respective clones by two-sample t-test, where the signal values are determined by multiple experiments of hybridization. The clones of interest are selectable based on the statistically significant differences in the signal distribution at  $p < 0.05$ . However, selectable clones with significant difference in the expression levels thereof may be changed depending on the partial modification of statistical treatment. For example, the clones may be selected by conducting statistical treatment with two-sample t-test at  $p < 0.01$ ; or genes exhibiting more explicit differences in the expression levels thereof can be selected by performing statistical treatment with a pre-determined cut-off value for the significant signal difference. An alternative method is that the expression levels are simply compared with each other, and then, the clones of interest are selected based on the ratio of the expression levels thereof.

[0088] Clones that vary in their expression levels can also be selected by comparing the expression levels by PCR analysis, for example, by using the method of determining the band intensities representing the amounts of PCR products with ethidium bromide staining; the method of determining the values of radioisotope signals or fluorescence intensities of the PCR products when radiolabeled or fluorescent dye-labeled primers, respectively, are used in PCR amplification; or the method of determining the values of radioisotope signals or fluorescence intensities of the probes hybridized to the PCR products when radiolabeled or fluorescent dye-labeled probes, respectively, are used in the hybridization. If the expression level ratios obtained in multiple PCR experiments are constantly at least 2-fold, such a clone can be judged to vary in its expression level. When the ratios are several-fold or not less than 10-fold, the clone can be selected as a gene exhibiting the explicit difference in its expression level.

[0089] A survey of genes of which expression levels are varied specifically to the glycosylated protein in the endothelial cells has revealed genes with elevated expression levels, HEMBA1003958, HEMBA1004850, MAMMA1001256, MAMMA1002132, PLACE2000411 and PLACE3000119. On the other hand, a gene of which expression level is decreased specifically to the glycosylated protein is MAMMA1001783. These clones are genes associated with diabetes.

[0090] A survey of genes of which expression levels are varied in response to TNF- $\alpha$  (Tumor Necrosis Factor-alpha) in the primary cell culture of synovial tissue has revealed the following clones with elevated expression levels in the presence of TNF- $\alpha$ :

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000046, HEMBA1000076, HEMBA1000111, HEMBA1000168, HEMBA1000185, HEMBA1000201, HEMBA1000231, HEMBA1000243, HEMBA1000280,

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|    |               |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|---------------|
|    | HEMBA1000282, | HEMBA1000304, | HEMBA1000307, | HEMBA1000327, | HEMBA1000356, | HEMBA1000376, |
|    | HEMBA1000387, | HEMBA1000390, | HEMBA1000418, | HEMBA1000460, | HEMBA1000491, | HEMBA1000501, |
|    | HEMBA1000518, | HEMBA1000519, | HEMBA1000520, | HEMBA1000531, | HEMBA1000534, | HEMBA1000542, |
|    | HEMBA1000545, | HEMBA1000591, | HEMBA1000592, | HEMBA1000594, | HEMBA1000636, | HEMBA1000655, |
| 5  | HEMBA1000657, | HEMBA1000673, | HEMBA1000682, | HEMBA1000686, | HEMBA1000722, | HEMBA1000726, |
|    | HEMBA1000827, | HEMBA1000870, | HEMBA1000918, | HEMBA1000971, | HEMBA1000974, | HEMBA1000986, |
|    | HEMBA1001019, | HEMBA1001043, | HEMBA1001051, | HEMBA1001059, | HEMBA1001060, | HEMBA1001071, |
|    | HEMBA1001080, | HEMBA1001109, | HEMBA1001140, | HEMBA1001172, | HEMBA1001196, | HEMBA1001213, |
|    | HEMBA1001226, | HEMBA1001281, | HEMBA1001299, | HEMBA1001302, | HEMBA1001303, | HEMBA1001323, |
| 10 | HEMBA1001326, | HEMBA1001327, | HEMBA1001330, | HEMBA1001351, | HEMBA1001407, | HEMBA1001411, |
|    | HEMBA1001446, | HEMBA1001454, | HEMBA1001569, | HEMBA1001647, | HEMBA1001714, | HEMBA1001800, |
|    | HEMBA1001804, | HEMBA1001809, | HEMBA1001888, | HEMBA1001912, | HEMBA1001921, | HEMBA1001967, |
|    | HEMBA1002084, | HEMBA1002161, | HEMBA1002166, | HEMBA1002241, | HEMBA1002337, | HEMBA1002363, |
|    | HEMBA1002389, | HEMBA1002458, | HEMBA1002460, | HEMBA1002469, | HEMBA1002538, | HEMBA1002542, |
| 15 | HEMBA1002547, | HEMBA1002609, | HEMBA1002624, |               |               |               |
|    | HEMBA1002659, | HEMBA1002750, | HEMBA1002770, | HEMBA1002779, | HEMBA1002810, | HEMBA1002816, |
|    | HEMBA1002818, | HEMBA1002850, | HEMBA1002863, | HEMBA1003021, | HEMBA1003033, | HEMBA1003078, |
|    | HEMBA1003166, | HEMBA1003202, | HEMBA1003204, | HEMBA1003229, | HEMBA1003235, | HEMBA1003276, |
|    | HEMBA1003286, | HEMBA1003296, | HEMBA1003370, | HEMBA1003376, | HEMBA1003403, | HEMBA1003418, |
| 20 | HEMBA1003433, | HEMBA1003447, | HEMBA1003560, | HEMBA1003569, | HEMBA1003571, | HEMBA1003591, |
|    | HEMBA1003597, | HEMBA1003598, | HEMBA1003621, | HEMBA1003656, | HEMBA1003662, | HEMBA1003680, |
|    | HEMBA1003715, | HEMBA1003725, | HEMBA1003729, | HEMBA1003733, | HEMBA1003742, | HEMBA1003773, |
|    | HEMBA1003783, | HEMBA1003950, | HEMBA1004012, | HEMBA1004015, | HEMBA1004048, | HEMBA1004074, |
|    | HEMBA1004086, | HEMBA1004111, | HEMBA1004131, | HEMBA1004202, | HEMBA1004203, | HEMBA1004207, |
| 25 | HEMBA1004248, | HEMBA1004274, | HEMBA1004321, | HEMBA1004330, | HEMBA1004356, | HEMBA1004366, |
|    | HEMBA1004405, | HEMBA1004408, | HEMBA1004429, | HEMBA1004499, | HEMBA1004507, | HEMBA1004509, |
|    | HEMBA1004542, | HEMBA1004596, | HEMBA1004604, | HEMBA1004776, | HEMBA1004889, | HEMBA1004934, |
|    | HEMBA1004978, | HEMBA1005019, | HEMBA1005047, | HEMBA1005206, | HEMBA1005219, | HEMBA1005274, |
|    | HEMBA1005331, | HEMBA1005338, | HEMBA1005394, | HEMBA1005423, | HEMBA1005576, | HEMBA1005732, |
| 30 | HEMBA1005746, | HEMBA1006091, | HEMBA1006142, | HEMBA1006173, | HEMBA1006198, | HEMBA1006253, |
|    | HEMBA1006268, | HEMBA1006309, | HEMBA1006377, | HEMBA1006474, | HEMBA1006486, | HEMBA1006492, |
|    | HEMBA1006502, | HEMBA1006535, | HEMBA1006579, | HEMBA1006648, | HEMBA1006659, | HEMBA1006885, |
|    | HEMBA1006929, | HEMBA1006941, | HEMBA1007078, | HEMBA1007080, | HEMBA1007121, | HEMBA1007194, |
|    | HEMBA1007300, | HEMBA1007301, | HEMBA1007322, | HEMBA1000036, | HEMBA1000044, | HEMBA1000089, |
| 35 | HEMBA1000215, | HEMBA1000217, | HEMBA1000272, | HEMBA1000420, | HEMBA1000591, | HEMBA1000593, |
|    | HEMBA1000631, | HEMBA1000835, | HEMBA1000887, | HEMBA1000908, | HEMBA1000975, | HEMBA1000985, |
|    | HEMBA1001011, | HEMBA1001014, | HEMBA1001112, | HEMBA1001133, | HEMBA1001331, | HEMBA1001337, |
|    | HEMBA1001366, | HEMBA1001367, | HEMBA1001384, | HEMBA1001394, | HEMBA1001429, | HEMBA1001463, |
|    | HEMBA1001619, | HEMBA1001684, | HEMBA1001706, | HEMBA1001753, | HEMBA1001797, | HEMBA1001802, |
| 40 | HEMBA1001812, | HEMBA1001874, | HEMBA1001910, | HEMBA1001915, | HEMBA1001973, | HEMBA1001983, |
|    | HEMBA1001990, | HEMBA1002190, | HEMBA1002193, | HEMBA1002249, | HEMBA1002329, | HEMBA1002342, |
|    | HEMBA1002371, | HEMBA1002409, | HEMBA1002442, | HEMBA1002489, | HEMBA1002492, | HEMBA1002520, |
|    | HEMBA1002534, | HEMBA1002596, | HEMBA1002664, | HEMBA1002692, | HEMBA1002697, | HEMBA1002705, |
|    | MAMMA1000092, | MAMMA1000155, | MAMMA1000163, | MAMMA1000173, | MAMMA1000175, | MAMMA1000227, |
| 45 | MAMMA1000241, | MAMMA1000257, | MAMMA1000264, | MAMMA1000266, | MAMMA1000270, | MAMMA1000307, |
|    | MAMMA1000410, | MAMMA1000413, | MAMMA1000416, | MAMMA1000421, | MAMMA1000472, | MAMMA1000501, |
|    | MAMMA1000605, | MAMMA1000643, | MAMMA1000670, | MAMMA1000684, | MAMMA1000696, | MAMMA1000732, |
|    | MAMMA1000752, | MAMMA1000802, | MAMMA1000824, | MAMMA1000905, | MAMMA1000921, | MAMMA1000931, |
|    | MAMMA1000957, | MAMMA1000962, |               |               |               |               |
| 50 | MAMMA1000998, | MAMMA1001008, | MAMMA1001050, | MAMMA1001074, | MAMMA1001078, | MAMMA1001292, |
|    | MAMMA1001397, | MAMMA1001476, | MAMMA1001743, | MAMMA1001744, | MAMMA1001754, | MAMMA1001760, |
|    | MAMMA1001785, | MAMMA1001858, | MAMMA1001908, | MAMMA1002236, | MAMMA1002267, | MAMMA1002292, |
|    | MAMMA1002311, | MAMMA1002322, | MAMMA1002359, | MAMMA1002362, | MAMMA1002485, | MAMMA1002494, |
|    | MAMMA1002597, | MAMMA1002598, | MAMMA1002665, | MAMMA1002671, | MAMMA1002684, | MAMMA1002748, |
| 55 | MAMMA1002775, | MAMMA1002830, | MAMMA1002858, | MAMMA1002868, | MAMMA1002886, | MAMMA1002887, |
|    | MAMMA1002892, | MAMMA1002909, | MAMMA1002937, | MAMMA1002947, | MAMMA1002964, | MAMMA1002970, |
|    | MAMMA1003013, | MAMMA1003150, | NT2RM1000039, | NT2RM1000062, | NT2RM1000080, | NT2RM1000086, |
|    | NT2RM1000127, | NT2RM1000132, | NT2RM1000187, | NT2RM1000199, | NT2RM1000244, | NT2RM1000256, |

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|    |   |               |               |               |               |               |
|----|---|---------------|---------------|---------------|---------------|---------------|
|    | NT2RM1000272,   | NT2RM1000318, | NT2RM1000354, | NT2RM1000377, | NT2RM1000430, | NT2RM1000499, |
|    | NT2RM1000539,   | NT2RM1000553, | NT2RM1000563, | NT2RM1000699, | NT2RM1000742, | NT2RM1000826, |
|    | NT2RM1000829,   | NT2RM1000833, | NT2RM1000882, | NT2RM1000898, | NT2RM1000905, | NT2RM1001092, |
|    | NT2RM2000013,   | NT2RM2000032, | NT2RM2000042, | NT2RM2000101, | NT2RM2000124, | NT2RM2000192, |
| 5  | NT2RM2000259,   | NT2RM2000260, | NT2RM2000363, | NT2RM2000368, | NT2RM2000402, | NT2RM2000452, |
|    | NT2RM2000952,   | NT2RM2001221, | NT2RM2002014, | NT2RM2002030, | NT2RM4000156, | NT2RM4000349, |
|    | NT2RM4000395,   | NT2RM4000457, | NT2RM4000511, | NT2RM4000514, | NT2RM4000698, | NT2RM4000764, |
|    | NT2RM4001016,   | NT2RM4001084, | NT2RM4001594, | NT2RM4001629, |               |               |
|    | NT2RM4001662,   | NT2RM4001841, | NT2RM4002093, | NT2RM4002109, | NT2RM4002145, | NT2RM4002189, |
| 10 | NT2RM4002194,   | NT2RM4002226, | NT2RP1000170, | NT2RP1000439, | NT2RP1000478, | NT2RP1000513, |
|    | NT2RP1000701,   | NT2RP1000856, | NT2RP1001361, | NT2RP2000097, | NT2RP2000239, | NT2RP2000288, |
|    | NT2RP2000328,   | NT2RP2000329, | NT2RP2000369, | NT2RP2000422, | NT2RP2000842, | NT2RP2000965, |
|    | NT2RP2001245,   | NT2RP2001440, | NT2RP2001560, | NT2RP2001634, | NT2RP2001663, | NT2RP2001677, |
|    | NT2RP2001762,   | NT2RP2002270, | NT2RP2002312, | NT2RP2002316, | NT2RP2002333, | NT2RP2002706, |
| 15 | NT2RP2002925,   | NT2RP2002959, | NT2RP2002987, | NT2RP2003125, | NT2RP2003137, | NT2RP2003237, |
|    | NT2RP2003272,   | NT2RP2003596, | NT2RP2003604, | NT2RP2003643, | NT2RP2003968, | NT2RP2003976, |
|    | NT2RP2004194,   | NT2RP2004321, | NT2RP2005037, | NT2RP2005140, | NT2RP2005204, | NT2RP2005293, |
|    | NT2RP2005457,   | NT2RP2005555, | NT2RP2005600, | NT2RP2005701, | NT2RP2005719, | NT2RP2005722, |
|    | NT2RP2005773,   | NT2RP2005890, | NT2RP2006023, | NT2RP2006071, | NT2RP3000186, | NT2RP3000341, |
| 20 | NT2RP3000599,   | NT2RP3000632, | NT2RP3000644, | NT2RP3000852, | NT2RP3000968, | NT2RP3001096, |
|    | NT2RP3001109,   | NT2RP3001126, | NT2RP3001147, | NT2RP3001449, | NT2RP3001529, | NT2RP3001753, |
|    | NT2RP3001854,   | NT2RP3001915, | NT2RP3001969, | NT2RP3002081, | NT2RP3002142, | NT2RP3002399, |
|    | NT2RP3002590,   | NT2RP3002603, | NT2RP3002810, | NT2RP3002876, | NT2RP3003311, | NT2RP3003330, |
|    | NT2RP3003672,   | NT2RP3004209, | NT2RP3004378, | NT2RP4000078, | NT2RP4000541, | NT2RP4000588, |
| 25 | NT2RP4001219,   | NT2RP4001228, | NT2RP4001276, | NT2RP4001507, | NT2RP4002047, | NT2RP5003459, |
|    | NT2RP5003492,   | OVARC1000085, | OVARC1000087, | OVARC1000106, | OVARC1000151, | OVARC1000198, |
|    | OVARC1000431,   | OVARC1000440, | OVARC1000564, | OVARC1000605, | OVARC1000679, | OVARC1000883, |
|    | OVARC1000912,   | OVARC1000960, | OVARC1000971, | OVARC1001038, | OVARC1001055, | OVARC1001085, |
|    | OVARC1001129,   | OVARC1001167, | OVARC1001339, | OVARC1001425, | OVARC1001745, | OVARC1001762, |
| 30 | OVARC1001766,   | OVARC1001942, | OVARC1002044, | OVARC1002138, | PLACE1000004, | PLACE1000005, |
|    | PLACE1000420,   | PLACE1000547, | PLACE1000562, | PLACE1000653, | PLACE1001168, | PLACE1001311, |
|    | PLACE1001377,   | PLACE1001920, | PLACE1001983, | PLACE1002066, | PLACE1002072, | PLACE1002140, |
|    | PLACE1002171,   | PLACE1002319, | PLACE1002474, | PLACE1002499, | PLACE1002532, | PLACE1002665, |
|    | PLACE1003025,   | PLACE1003145, | PLACE1003361, | PLACE1003605, | PLACE1003704, | PLACE1003783, |
| 35 | PLACE1003885,   | PLACE1004405, | PLACE1004629, | PLACE1004686, | PLACE1004930, | PLACE1005066, |
|    | PLACE1005077,   | PLACE1005630, | PLACE1005876, | PLACE1006143, | PLACE1006325, | PLACE1006488, |
|    | PLACE1006805,   | PLACE1006829, | PLACE1007286, | PLACE1007858, | PLACE1008201, | PLACE1009045, |
|    | PLACE1009113,   | PLACE1009621, | PLACE1010106, | PLACE1010310, | PLACE1010622, | PLACE1010944, |
|    | PLACE1010965,   | PLACE1011185, | PLACE1011332, | PLACE1011635, | PLACE1011646, | PLACE1011725, |
| 40 | PLACE2000014,   | PLACE2000264, | PLACE2000394, | PLACE2000419, | PLACE3000160, | PLACE3000220, |
|    | PLACE3000254,   | PLACE3000271, | PLACE3000339, | PLACE3000341, | PLACE3000350, | PLACE3000353, |
|    | PLACE3000401,   | PLACE4000300, | SKNMC1000091, | THYRO1000855, | THYRO1001559, | Y79AA1000065, |
|    | Y79AA1000202,   | Y79AA1000214, | Y79AA1000346, | Y79AA1000784, | Y79AA1000833, | Y79AA1000968, |
|    | Y79AA1001555,   | Y79AA1002220  |               |               |               |               |
| 45 | <b>[0091]</b> On the other hand, clones with decreased expression levels in the presence of TNF $\alpha$ are: |               |               |               |               |               |
|    | HEMBA1002150,   | HEMBA1000240, | NT2RM2000469, | NT2RM2000984, | NT2RM2001688, | NT2RM4000290, |
|    | NT2RM4000496,   | NT2RM4000590, | NT2RM4001047, | NT2RM4001582, | NT2RM4001611, | NT2RM4001650, |
|    | NT2RM4002075,   | NT2RM4002128, | NT2RP1000174, | NT2RP1000243, | NT2RP1000581, | NT2RP1000688, |
|    | NT2RP1000767,   | NT2RP1000825, | NT2RP1001185, | NT2RP1001286, | NT2RP1001432, | NT2RP1001457, |
| 50 | NT2RP2000001,   | NT2RP2000248, | NT2RP2000841, | NT2RP2001813, | NT2RP2002137, | NT2RP2002928, |
|    | NT2RP2003517,   | NT2RP2003559, | NT2RP2003564, | NT2RP2004933, | NT2RP2005038, | NT2RP2006365, |
|    | NT2RP3000072,   | NT2RP3000320, | NT2RP3000484, | NT2RP3000980, | NT2RP3001111, | NT2RP3001420, |
|    | NT2RP3001495,   | NT2RP3002056, | NT2RP3002057, | NT2RP3002545, | NT2RP3002713, | NT2RP3002799, |
|    | NT2RP3002869,   | NT2RP3002953, | NT2RP3002955, | NT2RP3003282, | NT2RP3003290, | NT2RP3003384, |
| 55 | NT2RP3003385,   | NT2RP3003870, | NT2RP3004207, | NT2RP3004262, | NT2RP3004527, | NT2RP4000500, |
|    | NT2RP4000524,   | NT2RP4000787, | NT2RP4000927, | NT2RP4000955, | NT2RP4000989, | NT2RP4001442, |
|    | NT2RP4001638,   | NT2RP4001950, | NT2RP4002888, | NT2RP5003524, | OVARC1001270, | PLACE1000246, |
|    | PLACE1002816,   |               |               |               |               |               |

[0092] These are rheumatoid arthritis-associated clones.

[0093] A survey of genes of which expression levels are varied in primary cultured skin fibroblast cells exposed to ultraviolet light has revealed the following clones with elevated expression levels by ultraviolet radiation:

HEMBA1000542, HEMBA1001808, HEMBA1002177, HEMBA1003314, MAMMA1001874, NT2RM2001100,  
 5 NT2RP2005732, NT2RP3000592, NT2RP4000657, OVARC 1000004, OVARC1001092, OVARC1001342,  
 PLACE1002816, NT2RM4001002, NT2RM4001813, NT2RM4002266, NT2RP2001174, NT2RP2001196,  
 NT2RP2005358, NT2RP3000690, NT2RP3001216, NT2RP3003464, PLACE1006382, THYRO1000070,  
 THYRO1001100, Y79AA1000342

[0094] On the other hand, the expression levels of the following clones were decreased by ultraviolet radiation:

10 HEMBA1000005, HEMBA1000150, HEMBA1000156, HEMBA1000158, HEMBA1000168, HEMBA1000231,  
 HEMBA1000304, HEMBA1000307, HEMBA1000333, HEMBA1000366, HEMBA1000369, HEMBA1000390,  
 HEMBA1000396, HEMBA1000418, HEMBA1000434, HEMBA1000464, HEMBA1000469, HEMBA1000490,  
 HEMBA1000504, HEMBA1000505, HEMBA1000557, HEMBA1000657, HEMBA1000673, HEMBA1000682,  
 HEMBA1000686, HEMBA1000727, HEMBA1000752, HEMBA1000851, HEMBA1000852, HEMBA1000870,  
 15 HEMBA1000872, HEMBA1001085, HEMBA1001121, HEMBA1001133, HEMBA1001235, HEMBA1001265,  
 HEMBA1001281, HEMBA1001289, HEMBA1001299, HEMBA1001303, HEMBA1001310, HEMBA1001323,  
 HEMBA1001595, HEMBA1001620, HEMBA1001640, HEMBA1001678, HEMBA1001712, HEMBA1001835,  
 HEMBA1001950, HEMBA1001987, HEMBA1002253, HEMBA1002321, HEMBA1002341, HEMBA1002419,  
 HEMBA1002679, HEMBA1002728, HEMBA1002818, HEMBA1002935, HEMBA1002999, HEMBA1003034,  
 20 HEMBA1003071, HEMBA1003098, HEMBA1003142, HEMBA1003175, HEMBA1003202, HEMBA1003212,  
 HEMBA1003220, HEMBA1003276, HEMBA1003373, HEMBA1003417, HEMBA1003447, HEMBA1003528,  
 HEMBA1003684, HEMBA1003799, HEMBA1003885, HEMBA1003989, HEMBA1004011, HEMBA1004055,  
 HEMBA1004133, HEMBA1004225, HEMBA1004272, HEMBA1004353, HEMBA1004631, HEMBA1004669,  
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 25 HEMBA1005047, HEMBA1005079, HEMBA1005101, HEMBA1005149, HEMBA1005152, HEMBA1005202,  
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|    | NT2RP3004155, | NT2RP3004262, | NT2RP3004334, | NT2RP3004428, | NT2RP3004466, | NT2RP3004475, |
|    | NT2RP3004504, | NT2RP3004507, | NT2RP3004527, | NT2RP3004544, | NT2RP3004572, | NT2RP3004578, |
|    | NT2RP4000109, | NT2RP4000246, | NT2RP4000360, | NT2RP4000376, | NT2RP4000398, | NT2RP4000455, |
|    | NT2RP4000518, | NT2RP4000524, | NT2RP4000878, | NT2RP4000879, | NT2RP4000955, | NT2RP4000989, |
| 10 | NT2RP4000997, | NT2RP4001004, | NT2RP4001010, | NT2RP4001078, | NT2RP4001122, | NT2RP4001126, |
|    | NT2RP4001149, | NT2RP4001206, | NT2RP4001219, | NT2RP4001260, | NT2RP4001339, | NT2RP4001353, |
|    | NT2RP4001414, | NT2RP4001442, | NT2RP4001447, | NT2RP4001474, | NT2RP4001551, | NT2RP4001803, |
|    | NT2RP4001893, | NT2RP4001896, | NT2RP4001946, | NT2RP4001950, | NT2RP4001966, | NT2RP4002081, |
|    | NT2RP4002408, | NT2RP4002791, | NT2RP4002888, | NT2RP5003524, | NT2RP5003534, | OVARC1000013, |
| 15 | OVARC1000035, | OVARC1000087, | OVARC1000113, | OVARC1000139, | OVARC1000145, | OVARC1000209, |
|    | OVARC1000212, | OVARC1000408, | OVARC1000427, | OVARC1000466, | OVARC1000496, | OVARC1000533, |
|    | OVARC1000576, | OVARC1000640, | OVARC1000649, | OVARC1000682, | OVARC1000689, | OVARC1000771, |
|    | OVARC1000885, | OVARC1000890, | OVARC1000936, | OVARC1000964, | OVARC1001065, | OVARC1001068, |
|    | OVARC1001072, | OVARC1001107, | OVARC1001113, | OVARC1001154, | OVARC1001169, | OVARC1001176, |
| 20 | OVARC1001372, | OVARC1001391, | OVARC1001453, | OVARC1001476, | OVARC1001480, | OVARC1001547, |
|    | OVARC1001555, | OVARC1001610, | OVARC1001711, | OVARC1001713, | OVARC1001726, | OVARC1001766, |
|    | OVARC1001767, | OVARC1001768, | OVARC1001805, | OVARC1001809, | OVARC1001828, | OVARC1001846, |
|    | OVARC1001901, | OVARC1001943, | OVARC1002138, | OVARC1002156, | PLACE1000005, | PLACE1000007, |
|    | PLACE1000040, | PLACE1000048, | PLACE1000133, | PLACE1000214, | PLACE1000347, | PLACE1000374, |
| 25 | PLACE1000424, | PLACE1000492, | PLACE1000547, | PLACE1000564, | PLACE1000599, | PLACE1000653, |
|    | PLACE1000706, | PLACE1000748, | PLACE1000749, | PLACE1000755, | PLACE1000841, | PLACE1000849, |
|    | PLACE1000856, | PLACE1000931, | PLACE1000987, | PLACE1001015, | PLACE1001024, | PLACE1001054, |
|    | PLACE1001062, | PLACE1001118, | PLACE1001168, | PLACE1001238, | PLACE1001377, | PLACE1001383, |
|    | PLACE1001384, | PLACE1001399, | PLACE1001440, | PLACE1001503, | PLACE1001545, | PLACE1001611, |
| 30 | PLACE1001640, | PLACE1001691, | PLACE1001705, | PLACE1001740, | PLACE1001817, | PLACE1001844, |
|    | PLACE1001845, | PLACE1001869, | PLACE1001897, | PLACE1002004, | PLACE1002073, | PLACE1002140, |
|    | PLACE1002157, | PLACE1002171, | PLACE1002205, | PLACE1002213, | PLACE1002474, | PLACE1002500, |
|    | PLACE1002529, | PLACE1002537, | PLACE1002598, | PLACE1002655, | PLACE1002908, | PLACE1003045, |
|    | PLACE1003136, | PLACE1003174, | PLACE1003258, | PLACE1003296, | PLACE1003334, | PLACE1003342, |
| 35 | PLACE1003361, | PLACE1003366, | PLACE1003369, | PLACE1003420, | PLACE1003454, | PLACE1003553, |
|    | PLACE1003566, | PLACE1003583, | PLACE1003669, | PLACE1003711, | PLACE1003723, | PLACE1003738, |
|    | PLACE1003760, | PLACE1003762, | PLACE1003771, | PLACE1003783, | PLACE1003850, | PLACE1003858, |
|    | PLACE1003915, | PLACE1004128, | PLACE1004161, | PLACE1004183, | PLACE1004197, | PLACE1004302, |
|    | PLACE1004358, | PLACE1004437, | PLACE1004460, | PLACE1004471, | PLACE1004506, | PLACE1004518, |
| 40 | PLACE1004646, | PLACE1004722, | PLACE1004793, | PLACE1004804, | PLACE1004838, | PLACE1004868, |
|    | PLACE1004900, | PLACE1004902, | PLACE1004969, | PLACE1004979, | PLACE1005086, | PLACE1005162, |
|    | PLACE1005243, | PLACE1005266, | PLACE1005313, | PLACE1005584, | PLACE1005698, | PLACE1005727, |
|    | PLACE1005739, | PLACE1005851, | PLACE1005925, | PLACE1006196, | PLACE1006248, | PLACE1006262, |
|    | PLACE1006335, | PLACE1006360, | PLACE1006385, | PLACE1006412, | PLACE1006414, | PLACE1006445, |
| 45 | PLACE1006598, | PLACE1006629, | PLACE1006640, | PLACE1006792, | PLACE1006815, | PLACE1006901, |
|    | PLACE1006917, | PLACE1006962, | PLACE1007021, | PLACE1007045, | PLACE1007112, | PLACE1007226, |
|    | PLACE1007243, | PLACE1007454, | PLACE1007547, | PLACE1007598, | PLACE1007618, | PLACE1007645, |
|    | PLACE1007649, | PLACE1007706, | PLACE1007725, | PLACE1007746, | PLACE1007843, | PLACE1007877, |
|    | PLACE1007954, | PLACE1007969, | PLACE1008002, | PLACE1008095, | PLACE1008111, | PLACE1008132, |
| 50 | PLACE1008273, | PLACE1008275, | PLACE1008331, | PLACE1008356, | PLACE1008368, | PLACE1008402, |
|    | PLACE1008603, | PLACE1008650, | PLACE1008696, | PLACE1008757, | PLACE1008807, | PLACE1008867, |
|    | PLACE1008941, | PLACE1009020, | PLACE1009039, | PLACE1009158, | PLACE1009172, | PLACE1009190, |
|    | PLACE1009230, | PLACE1009319, | PLACE1009338, | PLACE1009375, | PLACE1009434, | PLACE1009613, |
|    | PLACE1009637, | PLACE1009659, | PLACE1009763, | PLACE1009845, | PLACE1009921, | PLACE1009971, |
| 55 | PLACE1009992, | PLACE1010023, | PLACE1010053, | PLACE1010069, | PLACE1010074, | PLACE1010181, |
|    | PLACE1010202, | PLACE1010231, | PLACE1010270, | PLACE1010274, | PLACE1010321, | PLACE1010329, |
|    | PLACE1010492, | PLACE1010522, | PLACE1010616, | PLACE1010624, | PLACE1010631, | PLACE1010786, |
|    | PLACE1011032, | PLACE1011114, | PLACE1011221, | PLACE1011325, | PLACE1011520, | PLACE1011635, |

|    |  |               |               |               |               |               |
|----|--|---------------|---------------|---------------|---------------|---------------|
|    | PLACE1011649,  | PLACE1011682, | PLACE1011875, | PLACE1011896, | PLACE1011964, | PLACE1012031, |
|    | PLACE2000015,  | PLACE2000021, | PLACE2000047, | PLACE2000072, | PLACE2000097, | PLACE2000136, |
|    | PLACE2000246,  | PLACE2000302, | PLACE2000379, | PLACE2000394, | PLACE2000425, | PLACE2000427, |
|    | PLACE2000477,  | PLACE3000009, | PLACE3000070, | PLACE3000142, | PLACE3000145, | PLACE3000148, |
| 5  | PLACE3000155,  | PLACE3000169, | PLACE3000208, | PLACE3000230, | PLACE3000322, | PLACE3000331, |
|    | PLACE3000352,  | PLACE3000401, | PLACE3000413, | PLACE3000425, | PLACE3000477, | PLACE4000009, |
|    | PLACE4000049,  | PLACE4000089, | PLACE4000100, | PLACE4000247, | PLACE4000250, | PLACE4000252, |
|    | PLACE4000300,  | PLACE4000344, | PLACE4000367, | PLACE4000465, | PLACE4000489, | PLACE4000638, |
|    | SKNMC1000013,  | THYRO1000017, | THYRO1000026, | THYRO1000034, | THYRO1000072, | THYRO1000132, |
| 10 | THYRO1000173,  | THYRO1000190, | THYRO1000197, | THYRO1000221, | THYRO1000253, | THYRO1000270, |
|    | THYRO1000279,  | THYRO1000327, | THYRO1000394, | THYRO1000438, | THYRO1000558, | THYRO1000569, |
|    | THYRO1000585,  | THYRO1000596, | THYRO1000625, | THYRO1000637, | THYRO1000676, | THYRO1000734, |
|    | THYRO1000777,  | THYRO1000783, | THYRO1000805, | THYRO1000843, | THYRO1000934, | THYRO1001033, |
|    | THYRO1001347,  | THYRO1001405, | THYRO1001411, | THYRO1001534, | THYRO1001573, | THYRO1001584, |
| 15 | THYRO1001602,  | THYRO1001605, | THYRO1001772, | THYRO1001854, | VESEN1000122, | Y79AA1000037, |
|    | Y79AA1000065,  | Y79AA1000181, | Y79AA1000231, | Y79AA1000349, | Y79AA1000355, | Y79AA1000368, |
|    | Y79AA1000538,  | Y79AA1000782, | Y79AA1001023, | Y79AA1001145, | Y79AA1001391, | Y79AA1001541, |
|    | Y79AA1001585,  | Y79AA1001705, | Y79AA1001781, | Y79AA1001923, | Y79AA1001963, | Y79AA1002125, |
|    | Y79AA1002229,  | Y79AA1002407, | Y79AA1002487  |               |               |               |
| 20 | <b>[0095]</b> These clones are associated with ultraviolet radiation damage.   |               |               |               |               |               |
|    | <b>[0096]</b> A survey of genes of which expression levels are varied in response to the stimulation for inducing cell differentiation (stimulation using retinoic acid (RA) or using RA/inhibitor (inhibitor for cell division)) in culture cells of neural strain, NT2, revealed the following clones with elevated expression levels in the presence of RA: |               |               |               |               |               |
|    | HEMBA1000005,  | HEMBA1000042, | HEMBA1000046, | HEMBA1000076, | HEMBA1000111, | HEMBA1000141, |
| 25 | HEMBA1000150,  | HEMBA1000185, | HEMBA1000282, | HEMBA1000304, | HEMBA1000307, | HEMBA1000338, |
|    | HEMBA1000357,  | HEMBA1000376, | HEMBA1000387, | HEMBA1000392, | HEMBA1000428, | HEMBA1000456, |
|    | HEMBA1000459,  | HEMBA1000469, | HEMBA1000504, | HEMBA1000508, | HEMBA1000519, | HEMBA1000540, |
|    | HEMBA1000545,  | HEMBA1000557, | HEMBA1000563, | HEMBA1000568, | HEMBA1000575, | HEMBA1000588, |
|    | HEMBA1000592,  | HEMBA1000604, | HEMBA1000622, | HEMBA1000655, | HEMBA1000673, | HEMBA1000682, |
| 30 | HEMBA1000726,  | HEMBA1000727, | HEMBA1000749, | HEMBA1000769, | HEMBA1000774, | HEMBA1000791, |
|    | HEMBA1000822,  | HEMBA1000872, | HEMBA1000876, | HEMBA1000910, | HEMBA1000942, | HEMBA1000943, |
|    | HEMBA1000960,  | HEMBA1000972, | HEMBA1000974, | HEMBA1000991, | HEMBA1001008, | HEMBA1001020, |
|    | HEMBA1001043,  | HEMBA1001051, | HEMBA1001060, | HEMBA1001071, | HEMBA1001077, | HEMBA1001085, |
|    | HEMBA1001094,  | HEMBA1001109, | HEMBA1001121, | HEMBA1001122, | HEMBA1001140, | HEMBA1001172, |
| 35 | HEMBA1001226,  | HEMBA1001235, | HEMBA1001265, | HEMBA1001281, | HEMBA1001294, | HEMBA1001299, |
|    | HEMBA1001319,  | HEMBA1001323, | HEMBA1001330, | HEMBA1001351, | HEMBA1001361, | HEMBA1001377, |
|    | HEMBA1001388,  | HEMBA1001391, | HEMBA1001398, | HEMBA1001432, | HEMBA1001435, | HEMBA1001442, |
|    | HEMBA1001454,  | HEMBA1001455, | HEMBA1001497, | HEMBA1001517, | HEMBA1001569, | HEMBA1001570, |
|    | HEMBA1001581,  | HEMBA1001585, | HEMBA1001620, | HEMBA1001711, | HEMBA1001718, | HEMBA1001723, |
| 40 | HEMBA1001761,  | HEMBA1001815, | HEMBA1001819, | HEMBA1001861, | HEMBA1001864, | HEMBA1001869, |
|    | HEMBA1001888,  | HEMBA1001915, | HEMBA1001918, | HEMBA1001940, | HEMBA1001964, | HEMBA1001967, |
|    | HEMBA1001979,  | HEMBA1001987, | HEMBA1001991, | HEMBA1002008, | HEMBA1002022, | HEMBA1002039, |
|    | HEMBA1002049,  | HEMBA1002084, | HEMBA1002102, | HEMBA1002113, | HEMBA1002144, | HEMBA1002160, |
|    | HEMBA1002162,  | HEMBA1002185, | HEMBA1002212, | HEMBA1002226, | HEMBA1002229, | HEMBA1002267, |
| 45 | HEMBA1002270,  | HEMBA1002337, | HEMBA1002381, | HEMBA1002458, | HEMBA1002477, | HEMBA1002508, |
|    | HEMBA1002558,  | HEMBA1002561, | HEMBA1002583, | HEMBA1002590, | HEMBA1002628, | HEMBA1002645, |
|    | HEMBA1002661,  | HEMBA1002678, | HEMBA1002712, | HEMBA1002728, | HEMBA1002780, | HEMBA1002850, |
|    | HEMBA1002886,  | HEMBA1002934, | HEMBA1002935, | HEMBA1002939, | HEMBA1002951, | HEMBA1002968, |
|    | HEMBA1002970,  | HEMBA1002973, | HEMBA1002999, | HEMBA1003021, | HEMBA1003033, | HEMBA1003034, |
| 50 | HEMBA1003064,  | HEMBA1003067, | HEMBA1003078, | HEMBA1003086, | HEMBA1003096, | HEMBA1003129, |
|    | HEMBA1003142,  | HEMBA1003148, | HEMBA1003166, | HEMBA1003175, | HEMBA1003197, | HEMBA1003199, |
|    | HEMBA1003202,  | HEMBA1003204, | HEMBA1003212, | HEMBA1003235, | HEMBA1003250, | HEMBA1003273, |
|    | HEMBA1003276,  | HEMBA1003278, | HEMBA1003291, | HEMBA1003309, | HEMBA1003322, | HEMBA1003328, |
|    | HEMBA1003348,  | HEMBA1003369, | HEMBA1003376, | HEMBA1003384, | HEMBA1003395, | HEMBA1003463, |
| 55 | HEMBA1003480,  | HEMBA1003531, | HEMBA1003548, | HEMBA1003591, | HEMBA1003595, | HEMBA1003597, |
|    | HEMBA1003617,  | HEMBA1003621, | HEMBA1003622, | HEMBA1003637, | HEMBA1003640, | HEMBA1003645, |
|    | HEMBA1003646,  | HEMBA1003656, | HEMBA1003679, | HEMBA1003692, | HEMBA1003715, | HEMBA1003720, |
|    | HEMBA1003725,  | HEMBA1003729, | HEMBA1003758, | HEMBA1003803, | HEMBA1003805, | HEMBA1003836, |

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|    |               |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|---------------|
|    | HEMBA1003838, | HEMBA1003879, | HEMBA1003885, | HEMBA1003893, | HEMBA1003908, | HEMBA1003937, |
|    | HEMBA1003942, | HEMBA1003953, | HEMBA1003958, | HEMBA1003959, | HEMBA1003978, | HEMBA1003987, |
|    | HEMBA1003989, | HEMBA1004000, | HEMBA1004011, | HEMBA1004012, | HEMBA1004015, | HEMBA1004024, |
|    | HEMBA1004049, | HEMBA1004056, | HEMBA1004111, | HEMBA1004132, | HEMBA1004143, | HEMBA1004164, |
| 5  | HEMBA1004199, | HEMBA1004200, | HEMBA1004207, | HEMBA1004225, | HEMBA1004246, | HEMBA1004248, |
|    | HEMBA1004267, | HEMBA1004289, | HEMBA1004312, | HEMBA1004323, | HEMBA1004335, | HEMBA1004353, |
|    | HEMBA1004354, | HEMBA1004356, | HEMBA1004366, | HEMBA1004396, | HEMBA1004405, | HEMBA1004429, |
|    | HEMBA1004433, | HEMBA1004460, | HEMBA1004499, | HEMBA1004502, | HEMBA1004506, | HEMBA1004534, |
|    | HEMBA1004538, | HEMBA1004573, | HEMBA1004577, | HEMBA1004586, | HEMBA1004610, | HEMBA1004629, |
| 10 | HEMBA1004666, | HEMBA1004669, | HEMBA1004672, | HEMBA1004709, | HEMBA1004733, | HEMBA1004736, |
|    | HEMBA1004748, | HEMBA1004751, | HEMBA1004758, | HEMBA1004763, | HEMBA1004768, | HEMBA1004770, |
|    | HEMBA1004778, | HEMBA1004803, | HEMBA1004820, | HEMBA1004847, | HEMBA1004863, | HEMBA1004880, |
|    | HEMBA1004909, | HEMBA1004918, | HEMBA1004923, | HEMBA1004930, | HEMBA1004934, | HEMBA1004944, |
|    | HEMBA1004954, | HEMBA1004980, | HEMBA1005035, | HEMBA1005039, | HEMBA1005075, | HEMBA1005079, |
| 15 | HEMBA1005113, | HEMBA1005123, | HEMBA1005133, | HEMBA1005149, | HEMBA1005152, | HEMBA1005219, |
|    | HEMBA1005223, | HEMBA1005232, | HEMBA1005251, | HEMBA1005274, | HEMBA1005275, | HEMBA1005304, |
|    | HEMBA1005311, | HEMBA1005314, | HEMBA1005359, | HEMBA1005367, | HEMBA1005374, | HEMBA1005410, |
|    | HEMBA1005411, | HEMBA1005423, | HEMBA1005426, | HEMBA1005443, | HEMBA1005447, | HEMBA1005474, |
|    | HEMBA1005508, | HEMBA1005511, | HEMBA1005520, | HEMBA1005526, | HEMBA1005548, | HEMBA1005552, |
| 20 | HEMBA1005576, | HEMBA1005581, | HEMBA1005582, | HEMBA1005583, | HEMBA1005588, | HEMBA1005595, |
|    | HEMBA1005609, | HEMBA1005616, | HEMBA1005627, | HEMBA1005631, | HEMBA1005666, | HEMBA1005670, |
|    | HEMBA1005679, | HEMBA1005699, | HEMBA1005705, | HEMBA1005765, | HEMBA1005780, | HEMBA1005822, |
|    | HEMBA1005829, | HEMBA1005834, | HEMBA1005853, | HEMBA1005891, | HEMBA1005894, | HEMBA1005911, |
|    | HEMBA1005921, | HEMBA1005991, | HEMBA1005999, | HEMBA1006036, | HEMBA1006042, | HEMBA1006100, |
| 25 | HEMBA1006138, | HEMBA1006142, | HEMBA1006268, | HEMBA1006278, | HEMBA1006328, | HEMBA1006344, |
|    | HEMBA1006359, | HEMBA1006398, | HEMBA1006416, | HEMBA1006419, | HEMBA1006421, | HEMBA1006426, |
|    | HEMBA1006438, | HEMBA1006483, | HEMBA1006485, | HEMBA1006502, | HEMBA1006507, | HEMBA1006546, |
|    | HEMBA1006559, | HEMBA1006562, | HEMBA1006579, | HEMBA1006597, | HEMBA1006612, | HEMBA1006617, |
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| 30 | HEMBA1006779, | HEMBA1006780, | HEMBA1006795, | HEMBA1006821, | HEMBA1006865, | HEMBA1006926, |
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|    | HEMBA1007267, | HEMBA1007288, | HEMBA1007327, | HEMBA1007341, | HEMBA1007347, |               |
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| 35 | HEMBB1000048, | HEMBB1000054, | HEMBB1000059, | HEMBB1000083, | HEMBB1000089, | HEMBB1000099, |
|    | HEMBB1000113, | HEMBB1000141, | HEMBB1000144, | HEMBB1000173, | HEMBB1000175, | HEMBB1000215, |
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|    | HEMBB1000434, | HEMBB1000441, | HEMBB1000449, | HEMBB1000490, | HEMBB1000491, | HEMBB1000523, |
| 40 | HEMBB1000530, | HEMBB1000550, | HEMBB1000554, | HEMBB1000573, | HEMBB1000575, | HEMBB1000593, |
|    | HEMBB1000598, | HEMBB1000638, | HEMBB1000643, | HEMBB1000649, | HEMBB1000671, | HEMBB1000684, |
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|    | HEMBB1000840, | HEMBB1000848, | HEMBB1000870, | HEMBB1000883, | HEMBB1000887, | HEMBB1000890, |
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| 45 | HEMBB1001020, | HEMBB1001024, | HEMBB1001037, | HEMBB1001060, | HEMBB1001096, | HEMBB1001114, |
|    | HEMBB1001117, | HEMBB1001142, | HEMBB1001153, | HEMBB1001177, | HEMBB1001210, | HEMBB1001218, |
|    | HEMBB1001242, | HEMBB1001267, | HEMBB1001289, | HEMBB1001346, | HEMBB1001348, | HEMBB1001364, |
|    | HEMBB1001366, | HEMBB1001369, | HEMBB1001380, | HEMBB1001387, | HEMBB1001394, | HEMBB1001426, |
|    | HEMBB1001436, | HEMBB1001454, | HEMBB1001463, | HEMBB1001521, | HEMBB1001535, | HEMBB1001537, |
| 50 | HEMBB1001555, | HEMBB1001585, | HEMBB1001603, | HEMBB1001619, | HEMBB1001668, | HEMBB1001685, |
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|    | PLACE1006164, | PLACE1006170, | PLACE1006187, | PLACE1006223, | PLACE1006239, | PLACE1006248, |
|    | PLACE1006412, | PLACE1006445, | PLACE1006482, | PLACE1006492, | PLACE1006521, | PLACE1006540, |
| 50 | PLACE1006617, | PLACE1006629, | PLACE1006673, | PLACE1006704, | PLACE1006760, | PLACE1006792, |
|    | PLACE1006795, | PLACE1006800, | PLACE1006860, | PLACE1006904, | PLACE1006961, | PLACE1006962, |
|    | PLACE1007045, | PLACE1007274, | PLACE1007346, | PLACE1007367, | PLACE1007375, | PLACE1007386, |
|    | PLACE1007416, | PLACE1007450, | PLACE1007454, | PLACE1007478, | PLACE1007484, | PLACE1007544, |
|    | PLACE1007547, | PLACE1007557, | PLACE1007598, | PLACE1007645, | PLACE1007677, | PLACE1007743, |
| 55 | PLACE1007807, | PLACE1007829, | PLACE1007858, | PLACE1008002, | PLACE1008129, | PLACE1008132, |
|    | PLACE1008201, | PLACE1008209, | PLACE1008273, | PLACE1008368, | PLACE1008532, | PLACE1008568, |
|    | PLACE1008696, | PLACE1008867, | PLACE1008887, | PLACE1008941, | PLACE1009027, | PLACE1009039, |
|    | PLACE1009050, | PLACE1009099, | PLACE1009155, | PLACE1009172, | PLACE1009174, | PLACE1009298, |



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|    |  |               |               |               |               |               |
|----|--|---------------|---------------|---------------|---------------|---------------|
|    | PLACE1009328,  | PLACE1009335, | PLACE1009338, | PLACE1009388, | PLACE1009444, | PLACE1009595, |
|    | PLACE1009596,  | PLACE1009607, | PLACE1009621, | PLACE1009637, | PLACE1009665, | PLACE1009708, |
|    | PLACE1009798,  | PLACE1009861, | PLACE1009886, | PLACE1009971, | PLACE1009995, | PLACE1010089, |
|    | PLACE1010102,  | PLACE1010106, | PLACE1010152, | PLACE1010383, | PLACE1010491, | PLACE1010616, |
| 5  | PLACE1010630,  | PLACE1010631, | PLACE1010702, | PLACE1010739, | PLACE1010761, | PLACE1010833, |
|    | PLACE1010870,  | PLACE1010896, | PLACE1010916, | PLACE1010925, | PLACE1010942, | PLACE1010954, |
|    | PLACE1010965,  | PLACE1011041, | PLACE1011046, | PLACE1011054, | PLACE1011057, | PLACE1011090, |
|    | PLACE1011109,  | PLACE1011203, | PLACE1011214, | PLACE1011296, | PLACE1011340, | PLACE1011433, |
|    | PLACE1011452,  | PLACE1011567, | PLACE1011576, | PLACE1011643, | PLACE1011675, | PLACE1011719, |
| 10 | PLACE1011729,  | PLACE1011749, | PLACE1011762, | PLACE1011783, | PLACE1011874, | PLACE1011995, |
|    | PLACE2000017,  | PLACE2000021, | PLACE2000033, | PLACE2000039, | PLACE2000047, | PLACE2000062, |
|    | PLACE2000103,  | PLACE2000124, | PLACE2000170, | PLACE2000216, | PLACE2000235, | PLACE2000264, |
|    | PLACE2000302,  | PLACE2000305, | PLACE2000335, | PLACE2000342, | PLACE2000347, | PLACE2000379, |
|    | PLACE2000394,  | PLACE2000433, | PLACE2000450, | PLACE2000465, | PLACE3000103, | PLACE3000119, |
| 15 | PLACE3000121,  | PLACE3000124, | PLACE3000155, | PLACE3000158, | PLACE3000207, | PLACE3000220, |
|    | PLACE3000242,  | PLACE3000271, | PLACE3000304, | PLACE3000322, | PLACE3000331, | PLACE3000341, |
|    | PLACE3000362,  | PLACE3000365, | PLACE3000388, | PLACE3000399, | PLACE3000400, | PLACE3000401, |
|    | PLACE3000402,  | PLACE3000425, | PLACE3000455, | PLACE4000034, | PLACE4000049, | PLACE4000089, |
|    | PLACE4000128,  | PLACE4000156, | PLACE4000222, | PLACE4000250, | PLACE4000320, | PLACE4000379, |
| 20 | PLACE4000431,  | PLACE4000445, | PLACE4000465, | PLACE4000487, | PLACE4000494, | PLACE4000522, |
|    | PLACE4000558,  | PLACE4000581, | PLACE4000650, | PLACE4000654, |               |               |
|    | THYRO1000034,  | THYRO1000085, | THYRO1000092, | THYRO1000111, | THYRO1000156, | THYRO1000163, |
|    | THYRO1000173,  | THYRO1000190, | THYRO1000197, | THYRO1000221, | THYRO1000241, | THYRO1000327, |
|    | THYRO1000381,  | THYRO1000387, | THYRO1000394, | THYRO1000488, | THYRO1000585, | THYRO1000625, |
| 25 | THYRO1000637,  | THYRO1000658, | THYRO1000666, | THYRO1000676, | THYRO1000684, | THYRO1000712, |
|    | THYRO1000734,  | THYRO1000793, | THYRO1000796, | THYRO1000805, | THYRO1000815, | THYRO1000865, |
|    | THYRO1000916,  | THYRO1000934, | THYRO1000974, | THYRO1000975, | THYRO1001031, | THYRO1001062, |
|    | THYRO1001093,  | THYRO1001133, | THYRO1001173, | THYRO1001177, | THYRO1001189, | THYRO1001204, |
|    | THYRO1001213,  | THYRO1001262, | THYRO1001290, | THYRO1001320, | THYRO1001322, | THYRO1001401, |
| 30 | THYRO1001406,  | THYRO1001426, | THYRO1001480, | THYRO1001487, | THYRO1001537, | THYRO1001595, |
|    | THYRO1001617,  | THYRO1001637, | THYRO1001706, | THYRO1001772, | THYRO1001828, | THYRO1001854, |
|    | Y79AA1000059,  | Y79AA1000214, | Y79AA1000355, | Y79AA1000410, | Y79AA1000538, | Y79AA1000539, |
|    | Y79AA1000705,  | Y79AA1000800, | Y79AA1000850, | Y79AA1000962, | Y79AA1000976, | Y79AA1001061, |
|    | Y79AA1001068,  | Y79AA1001493, | Y79AA1001548, | Y79AA1001585, | Y79AA1001594, | Y79AA1001696, |
| 35 | Y79AA1001711,  | Y79AA1002103, | Y79AA1002115, | Y79AA1002258, | Y79AA1002361, | Y79AA1002407, |
|    | Y79AA1002472,  | Y79AA1002482  |               |               |               |               |
|    | <b>[0097]</b> On the other hand, clones of which expression levels decreased by RA are as follows: |               |               |               |               |               |
|    | HEMBA1000946,  | HEMBA1003569, | HEMBA1005570, | HEMBA1000915, | NT2RM1000666, | NT2RM2000092, |
|    | NT2RM2000594,  | NT2RM2001256, | NT2RM4001754, | NT2RM4001905, | NT2RP2001675, | NT2RP2002047, |
| 40 | NT2RP2005491,  | NT2RP3000980, | NT2RP3002081, | NT2RP3004594, | NT2RP4001950, | NT2RP4002408, |
|    | OVARC1000431,  | OVARC1001942, | OVARC1001943, | PLACE1003190, | PLACE1004868, | PLACE1005923, |
|    | PLACE1007257,  | PLACE1010624, | Y79AA1000346  |               |               |               |
|    | <b>[0098]</b> Clones of which expression levels increase by RA/inhibitor are as follows:           |               |               |               |               |               |
|    | HEMBA1000046,  | HEMBA1000307, | HEMBA1000434, | HEMBA1000504, | HEMBA1000588, | HEMBA1000682, |
| 45 | HEMBA1000726,  | HEMBA1000943, | HEMBA1001071, | HEMBA1001094, | HEMBA1001122, | HEMBA1001323, |
|    | HEMBA1001361,  | HEMBA1001455, | HEMBA1001709, | HEMBA1001746, | HEMBA1001869, | HEMBA1002084, |
|    | HEMBA1002583,  | HEMBA1002628, | HEMBA1002801, | HEMBA1002937, | HEMBA1003096, | HEMBA1003142, |
|    | HEMBA1003229,  | HEMBA1003276, | HEMBA1003309, | HEMBA1003463, | HEMBA1003597, | HEMBA1003617, |
|    | HEMBA1003725,  | HEMBA1003803, | HEMBA1003879, | HEMBA1003989, | HEMBA1004000, | HEMBA1004015, |
| 50 | HEMBA1004024,  | HEMBA1004049, | HEMBA1004056, | HEMBA1004199, | HEMBA1004248, | HEMBA1004356, |
|    | HEMBA1004554,  | HEMBA1004666, | HEMBA1004725, | HEMBA1004770, | HEMBA1004803, | HEMBA1004923, |
|    | HEMBA1004934,  | HEMBA1004954, | HEMBA1005039, | HEMBA1005075, | HEMBA1005113, | HEMBA1005219, |
|    | HEMBA1005232,  | HEMBA1005251, | HEMBA1005304, | HEMBA1005367, | HEMBA1005372, | HEMBA1005403, |
|    | HEMBA1005410,  | HEMBA1005411, | HEMBA1005548, | HEMBA1005581, | HEMBA1005631, | HEMBA1005666, |
| 55 | HEMBA1005755,  | HEMBA1005780, | HEMBA1006067, | HEMBA1006130, | HEMBA1006364, | HEMBA1006485, |
|    | HEMBA1006559,  | HEMBA1006579, | HEMBA1006754, | HEMBA1000059, | HEMBA1000575, | HEMBA1000709, |
|    | HEMBA1000822,  | HEMBA1000848, | HEMBA1000852, | HEMBA1000913, | HEMBA1000985, | HEMBA1001117, |
|    | HEMBA1001210,  | HEMBA1001317, | HEMBA1001394, | HEMBA1001443, | HEMBA1001668, | HEMBA1001695, |

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|    |               |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|---------------|
|    | HEMBB1002049, | HEMBB1002254, | HEMBB1002266, | HEMBB1002371, | HEMBB1002502, | HEMBB1002614, |
|    | HEMBB1002617, | HEMBB1002692, | HEMBB1002697, | MAMMA1000241, | MAMMA1000424, | MAMMA1000616, |
|    | MAMMA1000731, | MAMMA1000824, | MAMMA1000908, | MAMMA1000956, | MAMMA1001038, | MAMMA1001091, |
|    | MAMMA1001243, | MAMMA1001815, | MAMMA1001820, | MAMMA1002267, | MAMMA1002769, | MAMMA1002871, |
| 5  | MAMMA1002941, |               |               |               |               |               |
|    | NT2RM1000355, | NT2RM1000725, | NT2RM1000829, | NT2RM1000850, | NT2RM1000898, | NT2RM2000504, |
|    | NT2RM2000635, | NT2RM2000718, | NT2RM2000821, | NT2RM2001370, | NT2RM2001582, | NT2RM2001592, |
|    | NT2RM2001613, | NT2RM2001632, | NT2RM2001635, | NT2RM2001648, | NT2RM2001659, | NT2RM2001671, |
|    | NT2RM2001695, | NT2RM2001760, | NT2RM2001782, | NT2RM2001839, | NT2RM2001879, | NT2RM2001983, |
| 10 | NT2RM4000104, | NT2RM4000290, | NT2RM4000425, | NT2RM4000433, | NT2RM4000471, | NT2RM4000531, |
|    | NT2RM4000852, | NT2RM4001047, | NT2RM4001347, | NT2RM4001454, | NT2RM4001557, | NT2RM4001566, |
|    | NT2RM4001582, | NT2RM4001938, | NT2RM4001953, | NT2RM4002018, | NT2RM4002409, | NT2RM4002558, |
|    | NT2RM4002594, | NT2RP1000259, | NT2RP1000418, | NT2RP1000574, | NT2RP1000629, | NT2RP1000782, |
|    | NT2RP1000856, | NT2RP1000943, | NT2RP1000988, | NT2RP1001013, | NT2RP1001173, | NT2RP1001546, |
| 15 | NT2RP2000091, | NT2RP2000208, | NT2RP2000274, | NT2RP2000329, | NT2RP2000369, | NT2RP2000634, |
|    | NT2RP2000842, | NT2RP2000943, | NT2RP2000987, | NT2RP2001094, | NT2RP2001277, | NT2RP2001290, |
|    | NT2RP2001366, | NT2RP2001423, | NT2RP2001436, | NT2RP2001467, | NT2RP2001506, | NT2RP2001601, |
|    | NT2RP2001663, | NT2RP2001926, | NT2RP2001985, | NT2RP2002032, | NT2RP2002041, | NT2RP2002046, |
| 20 | NT2RP2002078, | NT2RP2002124, | NT2RP2002185, | NT2RP2002193, | NT2RP2002312, | NT2RP2002316, |
|    | NT2RP2002426, | NT2RP2002457, | NT2RP2002475, | NT2RP2002520, | NT2RP2002595, | NT2RP2002643, |
|    | NT2RP2002672, | NT2RP2002701, | NT2RP2002710, | NT2RP2002727, | NT2RP2003099, | NT2RP2003121, |
|    | NT2RP2003137, | NT2RP2003158, | NT2RP2003206, | NT2RP2003230, | NT2RP2003272, | NT2RP2003280, |
|    | NT2RP2003347, | NT2RP2003393, | NT2RP2003401, | NT2RP2003445, | NT2RP2003456, | NT2RP2003511, |
|    | NT2RP2003517, | NT2RP2003543, | NT2RP2003596, | NT2RP2003706, | NT2RP2003871, | NT2RP2004681, |
| 25 | NT2RP2004743, | NT2RP2004775, | NT2RP2004933, | NT2RP2004967, | NT2RP2005003, | NT2RP2005270, |
|    | NT2RP2005289, | NT2RP2005344, | NT2RP2005453, | NT2RP2005555, | NT2RP2005767, | NT2RP2005853, |
|    | NT2RP2006043, | NT2RP2006393, | NT2RP2006436, | NT2RP2006441, | NT2RP2006467, | NT2RP2006534, |
|    | NT2RP2006565, | NT2RP3000348, | NT2RP3000359, | NT2RP3000366, | NT2RP3000403, | NT2RP3000418, |
|    | NT2RP3000441, | NT2RP3000561, | NT2RP3000759, | NT2RP3000826, | NT2RP3001007, | NT2RP3001096, |
| 30 | NT2RP3001126, | NT2RP3001355, | NT2RP3001396, | NT2RP3001449, | NT2RP3001490, | NT2RP3001679, |
|    | NT2RP3001727, | NT2RP3001752, | NT2RP3001777, | NT2RP3001782, | NT2RP3001799, | NT2RP3001854, |
|    | NT2RP3001989, | NT2RP3002142, | NT2RP3002248, | NT2RP3002343, | NT2RP3002484, | NT2RP3002529, |
|    | NT2RP3002549, | NT2RP3002628, | NT2RP3002687, | NT2RP3002688, | NT2RP3002810, | NT2RP3003032, |
|    | NT2RP3003139, | NT2RP3003193, | NT2RP3003203, | NT2RP3003204, | NT2RP3003210, | NT2RP3003212, |
| 35 | NT2RP3003264, | NT2RP3003282, | NT2RP3003500, | NT2RP3004041, | NT2RP3004215, | NT2RP4000147, |
|    | NT2RP4000259, | NT2RP4000360, | NT2RP4000448, | NT2RP4000524, | NT2RP4000588, | NT2RP4000879, |
|    | NT2RP4000907, | NT2RP4000989, | NT2RP4001079, | NT2RP4001150, | NT2RP4001219, | NT2RP4001260, |
|    | NT2RP4001274, | NT2RP4001353, | NT2RP4001547, | NT2RP4001677, | NT2RP4002052, | OVARC1000006, |
|    | OVARC1000092, | OVARC1000321, | OVARC1000384, | OVARC1000408, | OVARC1000414, | OVARC1000520, |
| 40 | OVARC1000526, | OVARC1000588, | OVARC1000679, | OVARC1000682, | OVARC1000769, | OVARC1000850, |
|    | OVARC1000862, | OVARC1000886, | OVARC1000984, | OVARC1001000, | OVARC1001004, | OVARC1001154, |
|    | OVARC1001170, | OVARC1001173, | OVARC1001200, | OVARC1001268, | OVARC1001376, | OVARC1001419, |
|    | OVARC1001425, | OVARC1001476, | OVARC1001480, | OVARC1001542, | OVARC1001873, | OVARC1001928, |
|    | OVARC1001987, | OVARC1002066, | OVARC1002082, | OVARC1002112, | OVARC1002127, |               |
| 45 | PLACE1000014, | PLACE1000048, | PLACE1000184, | PLACE1000185, | PLACE1000246, | PLACE1000292, |
|    | PLACE1000332, | PLACE1000347, | PLACE1000564, | PLACE1000656, | PLACE1000712, | PLACE1001000, |
|    | PLACE1001168, | PLACE1001185, | PLACE1001241, | PLACE1001294, | PLACE1001311, | PLACE1001395, |
|    | PLACE1001570, | PLACE1001608, | PLACE1001610, | PLACE1001716, | PLACE1001746, | PLACE1001817, |
|    | PLACE1001821, | PLACE1001844, | PLACE1001897, | PLACE1002066, | PLACE1002119, | PLACE1002157, |
| 50 | PLACE1002205, | PLACE1002256, | PLACE1002259, | PLACE1002399, | PLACE1002438, | PLACE1002474, |
|    | PLACE1002477, | PLACE1002500, | PLACE1002514, | PLACE1002578, | PLACE1002815, | PLACE1002851, |
|    | PLACE1002968, | PLACE1003108, | PLACE1003174, | PLACE1003200, | PLACE1003238, | PLACE1003256, |
|    | PLACE1003334, | PLACE1003342, | PLACE1003516, | PLACE1003521, | PLACE1003537, | PLACE1003592, |
|    | PLACE1003596, | PLACE1003723, | PLACE1003760, | PLACE1003771, | PLACE1003783, | PLACE1003795, |
| 55 | PLACE1003892, | PLACE1003968, | PLACE1004103, | PLACE1004256, | PLACE1004405, | PLACE1004460, |
|    | PLACE1004506, | PLACE1004629, | PLACE1004674, | PLACE1004813, | PLACE1004979, | PLACE1005066, |
|    | PLACE1005101, | PLACE1005102, | PLACE1005128, | PLACE1005181, | PLACE1005287, | PLACE1005305, |
|    | PLACE1005327, | PLACE1005477, | PLACE1005595, | PLACE1005603, | PLACE1005666, | PLACE1005804, |

PLACE1005884, PLACE1005934, PLACE1006076, PLACE1006119, PLACE1006159, PLACE1006164,  
 PLACE1006170, PLACE1006382, PLACE1006492, PLACE1006629, PLACE1006704, PLACE1006731,  
 PLACE1006760, PLACE1006779, PLACE1006795, PLACE1006805, PLACE1006962, PLACE1007045,  
 PLACE1007111, PLACE1007282, PLACE1007386, PLACE1007416, PLACE1007484, PLACE1007544,  
 5 PLACE1007645, PLACE1007743, PLACE1007746, PLACE1007807, PLACE1007858, PLACE1008002,  
 PLACE1008181, PLACE1008273, PLACE1008368, PLACE1008405, PLACE1008532, PLACE1008568,  
 PLACE1008625, PLACE1008696, PLACE1008867, PLACE1009027, PLACE1009039, PLACE1009045,  
 PLACE1009110, PLACE1009298, PLACE1009328, PLACE1009581, PLACE1009621, PLACE1009622,  
 PLACE1009637, PLACE1009925, PLACE1009935, PLACE1010089, PLACE1010106, PLACE1010152,  
 10 PLACE1010274, PLACE1010491, PLACE1010629, PLACE1010630, PLACE1010714, PLACE1010739,  
 PLACE1010891, PLACE1010896, PLACE1010925, PLACE1010965, PLACE1011026, PLACE1011046,  
 PLACE1011214, PLACE1011399, PLACE1011433, PLACE1011492, PLACE1011641, PLACE1011649,  
 PLACE1011719, PLACE1011762, PLACE1011858, PLACE1011923, PLACE2000014, PLACE2000039,  
 PLACE2000216, PLACE2000302, PLACE2000317, PLACE2000342, PLACE2000347, PLACE2000379,  
 15 PLACE3000121, PLACE3000124, PLACE3000160, PLACE3000242, PLACE3000271, PLACE3000353,  
 PLACE3000362, PLACE3000365, PLACE3000400, PLACE3000401, PLACE4000034, PLACE4000089,  
 PLACE4000522, PLACE4000558,  
 SKNMC1000050, THYRO1000040, THYRO1000197, THYRO1000241, THYRO1000327, THYRO1000394,  
 THYRO1000488, THYRO1000501, THYRO1000585, THYRO1000596, THYRO1000625, THYRO1000805,  
 20 THYRO1000934, THYRO1001133, THYRO1001134, THYRO1001173, THYRO1001213, THYRO1001262,  
 THYRO1001290, THYRO1001721, Y79AA1000037, Y79AA1000800, Y79AA1000976, Y79AA1001078,  
 Y79AA1001228, Y79AA1001299, Y79AA1001402, Y79AA1001585, Y79AA1001696, Y79AA1001711,  
 Y79AA1001827, Y79AA1001875, Y79AA1002027, Y79AA1002211, Y79AA1002234, Y79AA1002258  
**[0099]** On the other hand, clones of which expression levels decrease by RA/inhibitor are as follows:  
 25 HEMBA1000012, HEMBA1000501, HEMBA1000946, HEMBA1003220, HEMBA1003403, HEMBA1003569,  
 HEMBA1003591, HEMBA1003926, HEMBA1004168, HEMBA1004507, HEMBA1005009, HEMBA1005296,  
 HEMBA1005528, HEMBA1005570, HEMBA1006467, HEMBA1006486, HEMBA1006492, HEMBA1007322,  
 HEMBB1000055, HEMBB1000244, HEMBB1001665, MAMMA1000684, MAMMA1001139, MAMMA1001743,  
 NT2RM1000257, NT2RM1000318, NT2RM1000539, NT2RM1000666, NT2RM2000092, NT2RM2000192,  
 30 NT2RM2000371, NT2RM2000594, NT2RM4000511, NT2RM4001140, NT2RM4001754, NT2RM4001905,  
 NT2RM4001940, NT2RM4002593, NT2RP1000086, NT2RP1000439, NT2RP1001073, NT2RP2000098,  
 NT2RP2000965, NT2RP2001397, NT2RP2002047, NT2RP2004226, NT2RP2004396, NT2RP2004655,  
 NT2RP2005126, NT2RP2005464, NT2RP2005712, NT2RP2005859, NT2RP2005890, NT2RP3000980,  
 NT2RP3001383, NT2RP3001621, NT2RP3002081, NT2RP3002181, NT2RP3002244, NT2RP3002590,  
 35 NT2RP3003059, NT2RP3004258, NT2RP3004378, NT2RP3004527, NT2RP3004594, NT2RP4001760,  
 NT2RP4001950, NT2RP4002047, NT2RP4002408, NT2RP5003459, OVARC1000004, OVARC1000035,  
 OVARC1000431, OVARC1001051, OVARC1001129, OVARC1001176, OVARC1001261, OVARC1001342,  
 OVARC1001942, OVARC1001943, PLACE1002171, PLACE1002465, PLACE1003190, PLACE1003375,  
 PLACE1004128, PLACE1005026, PLACE1005876, PLACE1005923, PLACE1007257, PLACE1007375,  
 40 PLACE1007507, PLACE1008941, PLACE1010624, PLACE1011090, PLACE1011219, THYRO1000270,  
 Y79AA1000346, Y79AA1001541

**[0100]** These clones are also associated with neural differentiation and, therefore, are candidates for genes associated with neurological diseases.

**[0101]** For example, if the protein encoded by the cDNA of the present invention is a regulatory factor of cellular  
 45 conditions such as growth and differentiation, it can be used for developing medicines as follows. The protein or antibody  
 provided by the invention is injected into a certain kind of cells by microinjection. Then, using the cells, it is possible  
 to screen low molecular weight compounds by measuring the change in the cellular conditions, or the activation or  
 inhibition of a particular gene. The screening can be performed as follows. First, the protein is expressed and purified  
 as recombinant. The purified protein is microinjected into cells such as various cell lines, or primary culture cells, and  
 50 the cellular change such as growth and differentiation can be examined. Alternatively, the induction of genes whose  
 expression is known to be associated with a particular change of cellular conditions may be detected by the amount  
 of mRNA or protein. Or, the amount of intracellular molecules (low molecular weight compounds, etc.) that is changed  
 by the function of the gene product (protein) which is known to be associated with a particular change of cellular  
 conditions may be detected. The compounds to be screened (both low and high molecular compounds are acceptable)  
 55 can be added to the culture media and assessed for their activity by measuring the change of the cellular conditions.  
 Instead of microinjection, cell lines introduced with the gene obtained in the invention can be used for the screening.  
 If the gene product is turn out to be associated with a particular change in the cellular conditions, the change of the  
 product can be used as a measurement for screening. Once a compound is screened out which can activate or inhibit

the function of the protein of the invention, it can be applied for developing medicines.

**[0102]** If the protein encoded by the cDNA of the present invention is a secretory protein, membrane protein, or protein associated with signal transduction, glycoprotein, transcription, or diseases, it can be used in functional assays for developing medicines.

**[0103]** In case of a membrane protein, it is most likely to be a protein that functions as a receptor or ligand on the cell surface. Therefore, it is possible to reveal a new relationship between a ligand and receptor by screening the membrane protein of the invention based on the binding activity with the known ligand or receptor. Screening can be performed according to the known methods.

**[0104]** For example, a ligand against the protein of the invention can be screened in the following manner. Namely, a ligand that binds to a specific protein can be screened by a method comprising the steps of: (a) contacting a test sample with the protein of the invention or a partial peptide thereof, or cells expressing these, and (b) selecting a test sample that binds to said protein, said partial peptide, or said cells.

**[0105]** On the other hand, for example, screening using cells expressing the protein of the present invention that is a receptor protein can also be performed as follows. It is possible to screen receptors that is capable of binding to a specific protein by using procedures (a) attaching the sample cells to the protein of the invention or its partial peptide, and (b) selecting cells that can bind to the said protein or its partial peptide.

**[0106]** In a following screening as an example, first the protein of the invention is expressed, and the recombinant protein is purified. Next, the purified protein is labeled, binding assay is performed using a various cell lines or primary cultured cells, and cells that are expressing a receptor are selected (Growth and differentiation factors and their receptors, Shin-Seikagaku Jikken Kouza Vol.7 (1991) Honjyo, Arai, Taniguchi, and Muramatsu edit, p203-236, Tokyo-Kagaku-Doujin). A protein of the invention can be labeled with RI such as <sup>125</sup>I, and enzyme (alkaline phosphatase etc.). Alternatively, a protein of the invention may be used without labeling and then detected by using a labeled antibody against the protein. The cells that are selected by the above screening methods, which express a receptor of the protein of the invention, can be used for the further screening of an agonists or antagonists of the said receptor.

**[0107]** Once the ligand binding to the protein of the invention, the receptor of the protein of the invention or the cells expressing the receptor are obtained by screening, it is possible to screen a compound that binds to the ligand and receptor. Also it is possible to screen a compound that can inhibit both bindings (agonists or antagonists of the receptor, for example) by utilizing the binding activities.

**[0108]** When the protein of the invention is a receptor, the screening method comprises the steps of (a) contacting the protein of the invention or cells expressing the protein of the invention with the ligand, in the presence of a test sample, (b) detecting the binding activity between said protein or cells expressing said protein and the ligand, and (c) selecting a compound that reduces said binding activity when compared to the activity in the absence of the test sample. Furthermore, when the protein of the invention is a ligand, the screening method comprises the steps of (a) contacting the protein of the invention with its receptor or cells expressing the receptor in the presence of samples, (b) detecting the binding activity between the protein and its receptor or the cells expressing the receptor, and (c) selecting a compound that can potentially reduce the binding activity compared to the activity in the absence of the sample.

**[0109]** Samples to screen include cell extracts, expressed products from a gene library, synthesized low molecular compound, synthesized peptide, and natural compounds, for example, but are not construed to be listed here. A compound that is isolated by the above screening using a binding activity of the protein of the invention can also be used as a sample.

**[0110]** A compound isolated by the screening may be a candidate to be an agonist or an antagonist of the receptor of the protein. By utilizing an assay that monitors a change in the intracellular signaling such as phosphorylation which results from reduction of the binding between the protein and its receptor, it is possible to identify whether the obtained compound is an agonist or antagonist of the receptor. Also, the compound may be a candidate of a molecule that can inhibit the interaction between the protein and its associated proteins (including a receptor) in vivo. Such compounds can be used for developing drugs for precaution or cures of a disease with which the protein is associated.

**[0111]** Secretory proteins may regulate cellular conditions such as growth and differentiation. It is possible to find out a novel factor that regulates cellular conditions by adding the secretory protein of the invention to a certain kind of cell, and performing a screening by utilizing the cellular changes in growth or differentiation, or activation of a particular gene.

**[0112]** The screening can be performed, for example, as follows. First, the protein of the invention is expressed and purified in a recombinant form. Then, the purified protein is added to a various kind of cell lines or primary cultured cells, and the change in the cell growth and differentiation is monitored. The induction of a particular gene that is known to be involved in a certain cellular change is detected by the amounts of mRNA and protein. Alternatively, the amount of an intracellular molecule (low-molecular-weight compounds, etc.) that is changed by the function of a gene product (protein) that is known to function in a certain cellular change is used for the detection.

**[0113]** Once the screening reveals that the protein of the invention can regulate cellular conditions or the functions, it is possible to apply the protein as a pharmaceutical and diagnostic medicine for associated diseases by itself or by

altering a part of it into an appropriate composition.

[0114] As is above described for membrane proteins, the secretory protein provided by the invention may be used to explore a novel ligand-receptor interaction using a screening based on the binding activity to a known ligand or receptor. A similar method can be used to identify an agonist or antagonist. The resulting compounds obtained by the methods can be a candidate of a compound that can inhibit the interaction between the protein of the invention and an interacting molecule (including a receptor). The compounds may be able to use as a preventive, therapeutic, and diagnostic medicine for the diseases, in which the protein may play a certain role.

[0115] Proteins associated with signal transduction or transcription may be a factor that affects a certain protein or gene in response to intracellular/extracellular stimuli. It is possible to find out a novel factor that can affect a protein or gene by expressing the protein provided by the invention in a certain types of cells, and performing a screening utilizing the activation of a certain intracellular protein or gene.

[0116] The screening may be performed as follows. First, a transformed cell line expressing the protein is obtained. Then, the transformed cell line and the untransformed original cell line are compared for the changes in the expression of a certain gene by detecting the amount of its mRNA or protein. Alternatively, the amount of an intracellular molecule (low molecular weight compounds) that is changed by the function of a certain gene product (protein) may be used for the detection. Furthermore, the change of the expression of a certain gene can be detected by introducing a fusion gene that comprises a regulatory region of the gene and a marker gene (luciferase, beta-galactosidase, etc.) into a cell, expressing the protein provided by the invention into the cell, and estimating the activity of a marker gene product (protein).

[0117] If the protein or gene of the invention is associated with diseases, it is possible to screen a gene or compound that can regulate its expression and/or activity either directly or indirectly by utilizing the protein of the present invention.

[0118] For example, the protein of the invention is expressed and purified as a recombinant protein. Then, the protein or gene that interacts with the protein of the invention is purified, and screened based on the binding. Alternatively, the screening can be performed by adding with a compound of a candidate of the inhibitor added in advance and monitoring the change of binding activity. In another method, a transcription regulatory region locating in the 5'-upstream of the gene encoding the protein of the invention that is capable of regulating the expression of other genes is obtained, and fused with a marker gene. The fusion is introduced into a cell, and the cell is added with compounds to explore a regulatory factor of the expression of the said gene.

[0119] The compound obtained by the screening can be used for developing pharmaceutical and diagnostic medicines for the diseases with which the protein of the present invention is associated. Similarly, if the regulatory factor obtained in the screening is turn out to be a protein, compounds that can newly affect the expression or activity of the protein may be used as a medicine for the diseases with which the protein of the invention is associated.

[0120] If the protein of the invention has an enzymatic activity, regardless as to whether it is a secretory protein, membrane protein, or proteins associated with signal transduction, glycoprotein, transcription, or diseases, a screening may be performed by adding a compound to the protein of the invention and monitoring the change of the compound. The enzymatic activity may also be utilized to screen a compound that can inhibit the activity of the protein.

[0121] In a screening given as an example, the protein of the invention is expressed and the recombinant protein is purified. Then, compounds are contacted with the purified protein, and the amount of the compound and the reaction products is examined. Alternatively, compounds that are candidates of an inhibitor are pretreated, then a compound (substrate) that can react with the purified protein is added, and the amount of the substrate and the reaction products is examined.

[0122] The compounds obtained in the screening may be used as a medicine for diseases with which the protein of the invention is associated. Also they can be applied for tests that examine whether the protein of the invention functions normally *in vivo*.

[0123] Whether the secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein of the present invention is a novel protein associated with diseases or not is determined in another method than described above, by obtaining a specific antibody against the protein of the invention, and examining the relationship between the expression or activity of the protein and a certain disease. In an alternative way, it may be analyzed referred to the methods in "Molecular Diagnosis of Genetic Diseases" (Elles R. edit, (1996) in the series of "Method in Molecular Biology" (Humana Press).

[0124] Proteins associated with diseases are targets of screening as mentioned, and thus are very useful in developing drugs which regulate their expression and activity. Also, the proteins are useful in the medicinal industry as a diagnostic marker of the associated disease or a target of gene therapy.

[0125] Compounds isolated as mentioned above can be administered patients as it is, or after formulated into a pharmaceutical composition according to the known methods. For example, a pharmaceutically acceptable carrier or vehicle, specifically sterilized water, saline, plant oil, emulsifier, or suspending agent can be mixed with the compounds appropriately. The pharmaceutical compositions can be administered to patients by a method known to those skilled in the art, such as intraarterial, intravenous, or subcutaneous injections. The dosage may vary depending on the weight

or age of a patient, or the method of administration, but those skilled in the art can choose an appropriate dosage properly. If the compound is encoded by DNA, the DNA can be cloned into a vector for gene therapy, and used for gene therapy. The dosage of the DNA and the method of its administration may vary depending on the weight or age of a patient, or the symptoms, but those skilled in the art can choose properly.

**[0126]** The present invention further relates to databases comprising at least a sequence of polynucleotide and/or protein, or a medium recorded in such databases, selected from the sequence data of the nucleotide and/or the amino acids indicated in Table 350 and Table 351.

The term "database" means a set of accumulated information as machine-searchable and readable information of nucleotide sequence. The databases of the present invention comprise at least one of the novel nucleotide sequences of polynucleotides provided by the present invention. The databases of the present invention can consist of only the sequence data of the novel polynucleotides provided by the present invention or can comprise other information on nucleotide sequences of known full-length cDNAs or ESTs. The databases of the present invention can be comprised of not only the information on the nucleotide sequences but also the information on the gene functions revealed by the present invention. Additional information such as names of DNA clones carrying the full-length cDNAs can be recorded or linked together with the sequence data in the databases.

**[0127]** The database of the present invention is useful for gaining complete gene sequence information from partial sequence information of a gene of interest. The database of the present invention comprises nucleotide sequence information of full-length cDNAs. Consequently, by comparing the information in this database with the nucleotide sequence of a partial gene fragment yielded by differential display method or subtraction method, the information on the full-length nucleotide sequence of interest can be gained from the sequence of the partial fragment as a starting clue.

**[0128]** The sequence information of the full-length cDNAs constituting the database of the present invention contains not only the information on the complete sequences but also extra information on expression frequency of the genes as well as homology of the genes to known genes and known proteins. Thus the extra information facilitates rapid functional analyses of partial gene fragments. Further, the information on human genes is accumulated in the database of the present invention, and therefore, the database is useful for isolating a human homologue of a gene originating from other species. The human homologue can be isolated based on the nucleotide sequence of the gene from the original species.

**[0129]** At present, information on a wide variety of gene fragments can be obtained by differential display method and subtraction method. In general, these gene fragments are utilized as tools for isolating the full-length sequences thereof. When the gene fragment corresponds to an already-known gene, the full-length sequence is easily obtained by comparing the partial sequence with the information in known databases. However, when there exists no information corresponding to the partial sequence of interest in the known databases, cDNA cloning should be carried out for the full-length cDNA. It is often difficult to obtain the full-length nucleotide sequence using the partial sequence information as an initial clue. If the full-length of the gene is not available, the amino acid sequence of the protein encoded by the gene remains unidentified. Thus the database of the present invention can contribute to the identification of full-length cDNAs corresponding to gene fragments, which cannot be revealed by using databases of known genes.

**[0130]** The present invention has provided 5602 novel full-length cDNA clones, and primers for synthesizing the cDNA. As has not yet proceeded the isolation of full-length cDNA within the human, the invention has great significance. The full-length cDNA clones contain the translation initiation site, and thus provide a useful information for analysis of protein functions.

**[0131]** The cDNA clones are assumed to encode proteins such as secretory proteins, membrane proteins, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., which have important functions in vivo, and also predicted to be associated with many diseases. The genes and proteins associated with diseases are useful for developing a diagnostic marker or medicines for regulation of their expression and activity, or as a target of gene therapy.

**[0132]** The invention is illustrated more specifically with reference to the following examples, but is not to be construed as being limited thereto.

#### EXAMPLE 1

Construction of a cDNA library by the oligo-capping method.

**[0133]** The NT-2 neuron progenitor cells (Stratagene), a teratocarcinoma cell line from human embryo testis, which can differentiate into neurons by the treatment with retinoic acid were used.

The NT-2 cells were cultured according to the manufacturer's instructions as follows.

- (1) NT-2 cells were cultured without induction by retinoic acid treatment (NT2RM1, NT2RM2, NT2RM4).
- (2) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured for 48 hours (NT2RP1).

(3) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured for 2 weeks (NT2RP2, NT2RP3, NT2RP4, NT2RP5).

[0134] Also, the human neuroblastoma cell line SK-N-MC (ATCC HTB-10) (SKNMC1), and human retinoblastoma cell line Y79 (ATCC HTB-18) (Y79AA1) were cultured according to the culture conditions described in the ATCC catalogue (<http://www.atcc.org/>). The cells were harvested separately, and mRNA was extracted from each cell by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)<sup>+</sup>RNA was purified from the mRNA using oligo-dT cellulose.

[0135] Similarly, human placenta (PLACE1, PLACE2, PLACE3, PLACE4), human ovary cancer tissue (OVARC1), tissues from human embryo at 10 weeks, which is enriched with head (HEMBA1), or body (HEMBB1), human mammary gland (MAMMA1), human thyroid gland (THYRO1), and primary cultured cells of human blood vessel endothelium (VESEN1) were used to extract mRNA by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)<sup>+</sup>RNA was purified from the mRNA using oligo-dT cellulose.

[0136] Each poly(A)<sup>+</sup>RNA was used to construct a cDNA library by the oligo-capping method (Maruyama M. and Sugano S. (1994) *Gene*, 138: 171-174). Using the Oligo-cap linker (SEQ ID NO: 10464) and the Oligo-dT primer (SEQ ID NO: 10465), bacterial alkaline phosphatase (BAP) treatment, tobacco acid phosphatase (TAP) treatment, RNA ligation, the first strand cDNA synthesis, and removal of RNA were performed as described in the reference (Suzuki and Kanno (1996) *Protein Nucleic acid and Enzyme*, 41: 197-201; Suzuki Y. et al. (1997) *Gene*, 200: 149-156). Next, 5'- and 3'-PCR primers (SEQ ID NO: 10466, and 10467, respectively) were used for performing PCR to convert the cDNA into double stranded cDNA, which was then digested with SfiI. Then, the DraIII-cleaved pUC19FL3 vector (Figure 1; for NT2RM1, and NT2RP1), or the DraIII-cleaved pME18SFL3 (Figure 1) (GenBank AB009864, expression vector; for NT2RM2, NT2RM4, NT2RP2, NT2RP3, NT2RP4, NT2RP5, SKNMC1, Y79AA1, PLACE1, PLACE2, PLACE3, PLACE4, OVARC1, HEMBA1, HEMBB1, MAMMA1, THYRO1, and VESEN1) was used for cloning the cDNA in a unidirectional manner, and cDNA libraries were obtained. The nucleotide sequence of the 5'- and 3'- ends of the cDNA clones was analyzed with a DNA sequencer (ABI PRISM 377, PE Biosystems) after sequencing reactions were performed with the DNA sequencing reagents (Dye Terminator Cycle Sequencing FS Ready Reaction Kit, dRhodamine Terminator Cycle Sequencing FS Ready Reaction Kit, or BigDye Terminator Cycle Sequencing FS Ready Reaction Kit, PE Biosystems), according to the instructions. The data were compiled into a database.

[0137] The full-length-enriched cDNA libraries except those for NT2RM1 and NT2RP1 were constructed using eukaryotic expression vector pME18SFL3. The vector contains SR $\alpha$  promoter and SV40 small t intron in the upstream of the cloning site, and SV40 polyA added signal sequence site in the downstream. As the cloning site of pME18SFL3 has asymmetrical DraIII sites, and the ends of cDNA fragments contain SfiI sites complementary to the DraIII sites, the cloned cDNA fragments can be inserted into the downstream of the SR $\alpha$  promoter unidirectionally. Therefore, clones containing full-length cDNA can be expressed transiently by introducing the obtained plasmid directly into COS cells. Thus, the clones can be analyzed very easily in terms of the proteins that are the gene products of the clones, or in terms of the biological activities of the proteins.

[0138] Herein, the cDNA libraries and the name of each clone are related as shown in Table 3. Therein, "xxxxxx" represents the clone number of six digits. Thus, the sequences are named by the library name, the clone number plus F- for the 5'-end, or R- for the 3'-end.

Table 3

| 5  | library:<br>clone | 5'-end sequence             | 3'-end sequence |
|----|-------------------|-----------------------------|-----------------|
| 10 | NT2RM1:           | NT2RM1xxxxxx F-NT2RM1xxxxxx |                 |
|    | NT2RP1:           | NT2RP1xxxxxx F-NT2RP1xxxxxx |                 |
| 15 | NT2RM2:           | NT2RM2xxxxxx F-NT2RM2xxxxxx | R-NT2RM2xxxxxx  |
|    | NT2RM4:           | NT2RM4xxxxxx F-NT2RM4xxxxxx | R-NT2RM4xxxxxx  |
| 20 |                   |                             |                 |
| 25 |                   |                             |                 |
| 30 |                   |                             |                 |
| 35 |                   |                             |                 |
| 40 |                   |                             |                 |
| 45 |                   |                             |                 |
| 50 |                   |                             |                 |
| 55 |                   |                             |                 |



## NT2RP2:

|              |                |                |
|--------------|----------------|----------------|
| NT2RP2xxxxxx | F-NT2RP2xxxxxx | R-NT2RP2xxxxxx |
|--------------|----------------|----------------|

## NT2RP3:

|              |                |                |
|--------------|----------------|----------------|
| NT2RP3xxxxxx | F-NT2RP3xxxxxx | R-NT2RP3xxxxxx |
|--------------|----------------|----------------|

## NT2RP4:

|              |                |                |
|--------------|----------------|----------------|
| NT2RP4xxxxxx | F-NT2RP4xxxxxx | R-NT2RP4xxxxxx |
|--------------|----------------|----------------|

## NT2RP5:

|              |                |                |
|--------------|----------------|----------------|
| NT2RP5xxxxxx | F-NT2RP5xxxxxx | R-NT2RP5xxxxxx |
|--------------|----------------|----------------|

## SKNMC1:

|              |                |                |
|--------------|----------------|----------------|
| SKNMC1xxxxxx | F-SKNMC1xxxxxx | R-SKNMC1xxxxxx |
|--------------|----------------|----------------|

## Y79AA1:

|              |                |                |
|--------------|----------------|----------------|
| Y79AA1xxxxxx | F-Y79AA1xxxxxx | R-Y79AA1xxxxxx |
|--------------|----------------|----------------|

## PLACE1:

|              |                |                |
|--------------|----------------|----------------|
| PLACE1xxxxxx | F-PLACE1xxxxxx | R-PLACE1xxxxxx |
|--------------|----------------|----------------|

## PLACE2:

|              |                |                |
|--------------|----------------|----------------|
| PLACE2xxxxxx | F-PLACE2xxxxxx | R-PLACE2xxxxxx |
|--------------|----------------|----------------|

## PLACE3:

|              |                |                |
|--------------|----------------|----------------|
| PLACE3xxxxxx | F-PLACE3xxxxxx | R-PLACE3xxxxxx |
|--------------|----------------|----------------|

## PLACE4:

|              |                |                |
|--------------|----------------|----------------|
| PLACE4xxxxxx | F-PLACE4xxxxxx | R-PLACE4xxxxxx |
|--------------|----------------|----------------|

## OVARC1:

|              |                |                |
|--------------|----------------|----------------|
| OVARC1xxxxxx | F-OVARC1xxxxxx | R-OVARC1xxxxxx |
|--------------|----------------|----------------|

## HEMBA1:

|              |                |                |
|--------------|----------------|----------------|
| HEMBA1xxxxxx | F-HEMBA1xxxxxx | R-HEMBA1xxxxxx |
|--------------|----------------|----------------|

## HEMBB1:

|              |                |                |
|--------------|----------------|----------------|
| HEMBB1xxxxxx | F-HEMBB1xxxxxx | R-HEMBB1xxxxxx |
|--------------|----------------|----------------|

## MAMMA1:

|              |                |                |
|--------------|----------------|----------------|
| MAMMA1xxxxxx | F-MAMMA1xxxxxx | R-MAMMA1xxxxxx |
|--------------|----------------|----------------|

## THYRO1:

|              |                |                |
|--------------|----------------|----------------|
| THYRO1xxxxxx | F-THYRO1xxxxxx | R-THYRO1xxxxxx |
|--------------|----------------|----------------|

## VESEN1:

|              |                |                |
|--------------|----------------|----------------|
| VESEN1xxxxxx | F-VESEN1xxxxxx | R-VESEN1xxxxxx |
|--------------|----------------|----------------|

**EXAMPLE 2**

Estimation of the fullness ratio at the 5'-ends of the clones contained in the cDNA libraries constructed by the oligo-capping method.

**[0139]** The fullness ratio at the 5'-end sequence of the 59,823 clones in the human cDNA libraries constructed by the oligo-capping method was determined as follows. Of all the clones whose 5'-end sequences were found in those of known human mRNA in the public database, a clone was judged to be "full-length", if it had a longer 5'-end sequence than that of the known human mRNA, or, even though the 5'-end sequence was shorter, if it contained the translation initiation codon. A clone which did not contain the translation initiation codon was judged to be "not-full-length". The fullness ratio ((the number of full-length clones)/(the number of full-length and not-full-length clones)) at the 5'-end of the cDNA clones from each library was determined by comparing with the known human mRNA. As a result, the fullness

ratio of the 5'-ends was 63.5%. The result indicates that the fullness ratio at the 5'-end sequence was extremely high.

### EXAMPLE 3

5 Assessment of the fullness ratio of the 5'-end of the cDNA by the ATGpr and the ESTiMateFL.

[0140] The ATGpr, developed by Salamov A.A., Nishikawa T., and Swindells M.B. in the Helix Research Institute, is a program for prediction of the translation initiation codon based on the characteristics of the sequences in the vicinity of the ATG codon. The results are shown with expectations (also described as ATGpr1 below) that an ATG is a true  
10 initiation codon (0.05-0.94) (can be described as ATGpr1). When the program was applied to the 5'-end sequences of the clones from the cDNA library that was obtained by the oligo-capping method and that had 65% fullness ratio, the sensitivity and specificity of estimation of a full-length clone (clone containing the N-terminal end of ORF) were improved to 82-83% by selecting only clones having the ATGpr1 score 0.6 or higher.

[0141] Furthermore, the program was used to assess the fullness of 18,959 clones in the human libraries obtained here, which have 5'-ends matched to a known human mRNA.

[0142] Briefly, the maximal ATGpr1 score of the clones was determined, and then their 5'-end sequence was compared with the known human mRNA to estimate whether the clone is full-length or not. The result is shown in Table 4.

[0143] Based on the knowledge that known mRNAs, in general, are highly expressed in the cell, similar estimation was performed with genes having a low number in the EST hit, which represent relatively low abundant mRNAs, and the result is shown in Table 5.

[0144] In the table, the number of full-length clones indicate that of clones containing the N-terminal end of ORF, and so does the number of not-full-length clones that of clones without the N-terminal end of ORF. The fullness ratio represents (the number of full-length clones)/(the number of full-length clones plus the number of not-full-length clones).

25 Table 4

| The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having a matched 5'-end with that of a known mRNA. |  |                              |                |
|---|--|------------------------------|----------------|
| maximal ATGpr1 score  | number of (full-length clones plus not-full-length clones) | number of full-length clones | fullness ratio |
| >=0.70  | 11,193   | 9,346                        | 83.5%          |
| >=0.50  | 13,369   | 10,549                       | 78.9%          |
| >=0.30  | 15,489   | 11,340                       | 73.2%          |
| >=0.15  | 17,394   | 11,811                       | 67.9%          |
| >=0.00  | 18,959   | 12,046                       | 63.5%          |

40 Table 5

| The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of the clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having 5 EST hits or less among the clones having a matched 5'-end with that of a known mRNA. |  |                              |                |
|--|--|------------------------------|----------------|
| maximal ATGpr1 score   | number of (full-length clones plus not-full-length clones) | number of full-length clones | fullness ratio |
| >=0.70   | 2,801  | 1,934                        | 69.0%          |
| >=0.50   | 3,683  | 2,393                        | 65.0%          |
| >=0.30   | 4,683  | 2,707                        | 57.8%          |
| >=0.15   | 5,559  | 2,890                        | 52.0%          |
| >=0.00   | 6,113  | 3,013                        | 49.8%          |

[0145] Next, the ESTiMateFL was used for the estimation. The ESTiMateFL, developed by Nishikawa and Ota in the Helix Research Institute, is a method for the selection of a clone with high fullness ratio by comparing with the 5'-end or 3'-end sequences of ESTs in the public database.

[0146] By the method, a cDNA clone is judged to be most likely not to be full-length if there exist any ESTs which

have longer 5'-end or 3'-end sequences than the clone. The method is systematized for high throughput analysis. A clone is judged to be full-length if the clone has a longer 5'-end sequence than ESTs in the public database. Even if a clone has a shorter 5'-end, the clone is judged to be full-length if the difference in length is within 50 bases, and otherwise judged not to be full-length, for convenience.

[0147] In case of the clones whose 5'-end sequence is matching with the known mRNA, 80% of the clones judged to be full-length by comparing with ESTs was also judged to be full-length by comparing with the known mRNA. Also, 80% of the clones judged to be not full-length by comparing with ESTs was also judged to be not full-length by comparing with the known mRNA.

[0148] The precision of the estimation by comparing with ESTs is improved with increasing number of ESTs to be compared. However, in case that a limited number of ESTs are available, the reliability becomes low. Thus, the method is effective in excluding clones with high probability of being not-full-length, from the cDNA clones that is synthesized by the oligo-capping method and that have the 5'-end sequences with about 60 % fullness ratio. In particular, the ESTiMateFL is efficiently used to estimate the fullness ratio at the 3'-end sequence of cDNA of a human unknown mRNA which has a significant number of EST deposits in the public database.

[0149] The 18,959 clones isolated from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, were estimated by using the ATGpr and ESTiMateFL. Briefly, the 5'-end sequence of the respective clone was analyzed to obtain the maximal ATGpr1 score, and compared with the ORF of the known human mRNA that matches with it to determine whether the clone is full-length or not. Then, the 5'-end sequence of the respective clone was analyzed by the ESTiMateFL to judge whether the clone is full-length or not. Specifically, the 5'-end sequences of the 18,959 clones were compared with those of ESTs by the ESTiMateFL and the clones other than those that are not full-length were selected. Then, the selected clones were used to analyze the relationship between the ATGpr and the fullness ratio. The result was summarized in Table 6. Also, among the selected, the clones in which the number of the EST hit is not more than 5 were selected and analyzed. The result was summarized in Table 7, which represents the result of the analysis of mRNA with relatively low abundance.

[0150] Therein, the number of being full-length, the number of being not full-length, and the fullness ratio indicate the number of the clones that contain the N-terminus of the ORF, the number of the clones that do not contain the N-terminus of the ORF, and (the number of being full-length)/(the number of being full-length plus (the number of being not full-length)), respectively.

Table 6

| The maximal ATGpr1 score and the fullness ratio of the 5'-end sequence in the clones isolated from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, and also other than those being not full-length according to the comparison with ESTs. |  |                              |                |
|---|--|------------------------------|----------------|
| maximal ATGpr1 score  | number of (full-length clones plus not-full-length clones) | number of full-length clones | fullness ratio |
| >=0.70  | 9,068  | 8,349                        | 92.1%          |
| >=0.50  | 10,345   | 9,318                        | 90.1%          |
| >=0.30  | 11,425   | 9,964                        | 87.2%          |
| >=0.15  | 12,254   | 10,335                       | 84.3%          |
| >=0.00  | 12,785   | 10,484                       | 82.0%          |

Table 7

| Maximal ATGpr1 score and fullness ratio of the 5'-end sequence of the clones, which were isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA, in which the number of the EST hit is not more than 5. |  |                              |                |
|---|--|------------------------------|----------------|
| maximal ATGpr1 score  | number of (full-length clones plus not-full-length clones) | number of full-length clones | fullness ratio |
| >=0.70  | 1,959  | 1,510                        | 77.1%          |
| >=0.50  | 2,469  | 1,821                        | 73.8%          |
| >=0.30  | 2,975  | 2,046                        | 68.8%          |
| >=0.15  | 3,368  | 2,164                        | 64.3%          |

Table 7 (continued)

| Maximal ATGpr1 score and fullness ratio of the 5'-end sequence of the clones, which were isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA, in which the number of the EST hit is not more than 5. |  |                              |                |
|---|--|------------------------------|----------------|
| maximal ATGpr1 score  | number of (full-length clones plus not-full-length clones) | number of full-length clones | fullness ratio |
| $\geq 0.00$   | 3,661  | 2,226                        | 60.8%          |

[0151] The 19,226 clones, isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to that of a known human mRNA were estimated by the ATGpr2, and the correlation between the score and the fullness ratio was estimated. Specifically, the maximal ATGpr2 score of the clones identical to a known human mRNA was determined, and then their fullness ratio was estimated by comparing the 5'-ends with ORF of known human mRNA. The result was shown in Table 8.

Table 8

| Maximal ATGpr2 score and fullness ratio of the 5'-end sequence of the clones, which are isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA. |  |                              |                |
|---|--|------------------------------|----------------|
| maximal ATGpr2 score  | number of (full-length clones plus not-full-length clones) | number of full-length clones | fullness ratio |
| $\geq 0.30$   | 10,748   | 8,031                        | 74.7%          |
| $\geq 0.15$   | 16,383   | 11,226                       | 68.5%          |
| $\geq 0.00$   | 19,226   | 12,285                       | 63.9%          |

[0152] According to the above results, it was found that, in case of using clones isolated from human cDNA libraries constructed by the oligo-capping method, the fullness ratio of the clones that have low score in the ATGpr can be improved by estimating their 5'-end sequence using the combination of the ATGpr and the ESTimateFL. Therefore, the method was applied to select a cDNA clone with high fullness ratio.

#### EXAMPLE 4

Clustering of the 5'-end and 3'-end sequences of cDNA clones.

[0153] The 5'-end and 3'-end sequences of cDNA clones were obtained, and clustered separately. The single pass data of the nucleotide sequence of the 5'-end and 3'-end was subject to the BLAST search between the sequence data of all the clones synthesized in example 1, and the clones considered to be originating from the same gene were put together into a group. If the 5'-end of a clone contains the consensus sequence of 300 bases or more with identity 95% or more, or the 3'-end contains the consensus sequence of 200 bases or more and having identity 90% or more, the clones were put in the same group.

[0154] The groups of the 5'-end sequence and the 3'-end sequence were further clustered so as that the groups from the same clone can be in the same group (cluster).

#### EXAMPLE 5

Characterization of the cloned sequence.

[0155] The data of the 5'-end sequence of the cloned sequence was characterized by the following way:

- (1) examining whether it is identical to those of mRNA from human and other species (including authorized sequences) and human EST by the BLAST homology search of the GenBank,
- (2) examining whether it has longer 5'-end than those of human mRNA and human EST,
- (3) determining the scores in the ATGpr1 and ATGpr2 programs of all the initiation codons in the 5'-end sequence, and

(4) determining the number of the human EST clone(s) that is judged to be identical by the BLAST homology search of the GenBank.

[0156] The data of the 3'-end sequence of the cloned sequence was characterized by the above (1) and (4).

[0157] These characterized data were used for the final selection of the clones.

#### EXAMPLE 6

Identity to the human mRNA and human EST, and comparison of the length of the 5'-end.

[0158] The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those of mRNA from human or other species when the sequence to compare has the length of 200 bases or longer, and the obtained homology is 94% or more. The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those of human EST when the sequence to compare has the length of 200 bases or longer, and the obtained homology is 90% or more.

[0159] The sequence of the clone was judged to be full-length in comparison with human mRNA when the sequence has longer 5'-end, or it contains the translation initiation site. The sequence of the clone was judged to be full-length in comparison with human EST in the database when the sequence has longer 5'-end, or while it has shorter end, the difference in length between the two sequences is 50 bases or less. The other clones were judged to be not full-length.

#### EXAMPLE 7

Prediction of the fullness ratio by the ATGpr.

[0160] The score in the ATGpr1 is the expectation to be full-length based on calculations, and the higher score reflects the higher probability to be full-length as shown in Example 3. The maximal ATGpr1 score and the maximal ATGpr2 score represent the score obtained with all the initiation codons contained in the 5'-end sequence of the cloned sequence, and were used for the characterization.

#### EXAMPLE 8

Prediction of the novelty using the number of the identical ESTs by the homology search.

[0161] For both the 5'-end and 3'-end sequences of the clones, the number of the identical ESTs was determined by the homology search on the GenBank. Human ESTs were judged to be identical when the EST has a sequence of 200 nucleotides or more with 90% or more matching with the 5'-end sequence. The number of the identical ESTs were used for characterization and as an index of novelty. The clone having not identical sequence at the 5'-end and 3'-end sequences to those of mRNA as well as those of ESTs is a gene encoding a novel protein. Similarly, a clone having either the 5'-end or the 3'-end sequences, which has low number of the identical ESTs, is judged to be a gene encoding a novel protein.

#### EXAMPLE 9

Characterization of clusters.

[0162] The clusters of the groups of the 5'-end and 3'-end sequences were characterized according to the following criteria.

(1) Whether it is identical to the mRNA sequences from human or other species (including authorized sequences), or human ESTs by the BLAST search of the GenBank.

A cluster containing at least one sequence of all the 5'-end and 3'-end sequences, which is identical to one of the mRNA sequences, was regarded to be the same cluster of the mRNA sequence.

(2) Whether it has longer 5'-end than human mRNA sequence and human ESTs.

When all the 5'-end sequences contained in a cluster are judged to be not full-length compared with the mRNA sequences and human ESTs, the cluster was regarded as being not full-length.

(3) The scores in the ATGpr1 and ATGpr2 using all the initiation codons contained in the 5'-end sequences.

The maximal ATGpr1 score among those of all the 5'-end sequences in a cluster was determined as the ATGpr1 score of the cluster. The ATGpr2 score of the cluster was also determined in the same way.

(4) The number of the identical human ESTs determined by the BLAST search of the GenBank.

[0163] The maximum number was determined in the numbers of ESTs identical to each of 5'-end sequences contained in a cluster. The number of the ESTs identical to the 5'-end sequences in the cluster was defined as the maximum number. The number of the ESTs identical to the 3'-end sequences in a cluster was determined in the same way.

#### EXAMPLE 10

Methods for selection of the clusters by the characteristics.

[0164] Data obtained by the characterization described above was used to discard the clusters that are identical to any mRNA sequence from human and other species (including authorized sequences), or those clusters that are not full-length. From the rest of the clusters, the clusters that fulfill any of the following conditions were selected.

- (a) A cluster in which the number of the identical ESTs for the 5'-end sequence is 20 or less, and the ATGpr1 score exceeds 0.3.
- (b) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for both the 5'-end sequence and the 3'-end sequence is 5 or less, and multiple clones are contained.
- (c) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is 0, and the number of the identical ESTs for the 3'-end sequence is not less than 1.
- (d) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is not less than 1 and not more than 5, and the number of the identical ESTs for the 3'-end sequence is 0.

[0165] The clusters selected by (a) contain at least one clone that is novel and having high fullness ratio. The clusters selected by (b), (c), and (d) contain at least one clone that is novel and having low fullness ratio, but is still full-length.

#### EXAMPLE 11

Methods for selection of clones from clusters.

[0166] In the clusters comprising a single clone, the clone was selected.

[0167] In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score higher than 0.3, a clone with the highest score was selected.

[0168] In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score not more than 0.3, a clone with the highest ATGpr2 score was selected, if the score was higher than 0.3.

[0169] In the clusters comprising multiple clones, in which the clones have the scores not more than 0.3 in both the ATGpr1 and the ATGpr2, a clone with the highest scores in both the ATGpr1 and ATGpr2 was selected.

[0170] In the clusters comprising multiple clones, in which the above selection by the ATGpr score was not applicable, selected was a clone having longer 5'-end by assembling the 5'-end sequence, 3'-end sequence, and human ESTs. For assembling, the Sequencer™ (Hitachi Soft Engineering) was used. When even the selection by assembling failed, all the clones were judged to be full-length.

[0171] As a result, 3690 clones were the clones that have the maximal ATGpr1 score higher than 0.3. On the other hand, 477 clones were the clones that have the maximal ATGpr1 score not more than 0.3, and the maximal ATGpr2 score higher than 0.3. The number of the clones having the highest scores in both the ATGpr1 and ATGpr2, while the scores were not more than 0.3, were 97. The number of the clones which were not selected by the ATGpr scores, but were selected by assembling the 5'-end sequence, 3'-end sequence, and human ESTs, were 117. The clones that have the score in both the ATGpr1 and ATGpr2 not more than 0.3, but were selected because the cluster comprises a single clone, were 1166. In the clones, at least either of the 5'-end or 3'-end sequence was not identical to any of human ESTs. Some clones were selected because the cluster comprises a single clone, or by assembling, in which there is no ATG codon (9 clones: HEMBA1001960, HEMBA106569, HEMBB1001454, NT2PR2002839, NT2RP2005325, NT2RP2006323, PLACE1004506, PLACE1005526, and THYRO1001177). The sequences that do not contain the ATG codon were considered to be corresponding to the 5'-UTR. Although the clones do not have the scores in the ATGpr1 and ATGpr2, the clones were yet judged to be full-length according to the fullness ratio, as shown in Table 4, 5, 6, 7, and 8. The above clones that were finally judged to be full-length were classified into 11 groups according to the following criteria.

Group (1): 1516 clones

Among the 3690 clones having the maximal ATGpr1 score higher than 0.3, the following 1516 clones were having

high fullness ratio and a novel clone, in which at least either of the 5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

HEMBA1000046, HEMBA1000050, HEMBA1000129, HEMBA1000150, HEMBA1000158, HEMBA1000193 ,  
 HEMBA1000201, HEMBA1000216, HEMBA1000227, HEMBA1000288, HEMBA1000290, HEMBA100030 3,  
 5 HEMBA1000304, HEMBA1000369, HEMBA1000392, HEMBA1000396, HEMBA1000488, HEMBA10005 05,  
 HEMBA1000508, HEMBA1000534, HEMBA1000542, HEMBA1000594, HEMBA1000637, HEMBA1000 657,  
 HEMBA1000752, HEMBA1000867, HEMBA1000869, HEMBA1000872, HEMBA1000910, HEMBA100 0918,  
 HEMBA1000919, HEMBA1000942, HEMBA1000968, HEMBA1000975, HEMBA1000986, HEMBA10 01022,  
 HEMBA1001043, HEMBA1001052, HEMBA1001080, HEMBA1001085, HEMBA1001109, HEMBA1 001140,  
 10 HEMBA1001174, HEMBA1001235, HEMBA1001286, HEMBA1001302, HEMBA1001398, HEMBA 1001407,  
 HEMBA1001415, HEMBA1001446, HEMBA1001476, HEMBA1001497, HEMBA1001510, HEMB A1001533,  
 HEMBA1001570, HEMBA1001581, HEMBA1001635, HEMBA1001640, HEMBA1001647, HEM BA1001661,  
 HEMBA1001731, HEMBA1001744, HEMBA1001746, HEMBA1001800, HEMBA1001815, HE MBA1001822,  
 HEMBA1001866, HEMBA1001896, HEMBA1001910, HEMBA1001987,  
 15 HEMBA1002018, HEMBA1002035, HEMBA1002049, HEMBA1002092, HEMBA1002119, HEMBA1002125 ,  
 HEMBA1002161, HEMBA1002177, HEMBA1002189, HEMBA1002191, HEMBA1002199, HEMBA100222 9,  
 HEMBA1002237, HEMBA1002265, HEMBA1002363, HEMBA1002417, HEMBA1002419, HEMBA10024 30,  
 HEMBA1002439, HEMBA1002477, HEMBA1002503, HEMBA1002508, HEMBA1002515, HEMBA1002 547,  
 HEMBA1002688, HEMBA1002703, HEMBA1002746, HEMBA1002750, HEMBA1002850, HEMBA100 2973,  
 20 HEMBA1003021, HEMBA1003067, HEMBA1003077, HEMBA1003078, HEMBA1003079, HEMBA1003117,  
 HEMBA1003129, HEMBA1003175, HEMBA1003199, HEMBA1003235, HEMBA1003250, HEMBA1 003257,  
 HEMBA1003291, HEMBA1003322, HEMBA1003327, HEMBA1003370, HEMBA1003380, HEMBA 1003395,  
 HEMBA1003402, HEMBA1003461, HEMBA1003480, HEMBA1003538, HEMBA1003545, HEMB A1003556,  
 HEMBA1003581, HEMBA1003621, HEMBA1003645, HEMBA1003667, HEMBA1003720, HEM BA1003760,  
 25 HEMBA1003799, HEMBA1003807, HEMBA1003827, HEMBA1003836, HEMBA1003866, HE MBA1003879,  
 HEMBA1003880, HEMBA1003985, HEMBA1003989,  
 HEMBA1004011, HEMBA1004048, HEMBA1004056, HEMBA1004074, HEMBA1004133, HEMBA1004146 ,  
 HEMBA1004150, HEMBA1004199, HEMBA1004200, HEMBA1004238, HEMBA1004246, HEMBA100427 5,  
 HEMBA1004286, HEMBA1004289, HEMBA1004321, HEMBA1004327, HEMBA1004335, HEMBA10043 41,  
 30 HEMBA1004372, HEMBA1004389, HEMBA1004479, HEMBA1004499, HEMBA1004507, HEMBA1004 542,  
 HEMBA1004554, HEMBA1004573, HEMBA1004596, HEMBA1004632, HEMBA1004697, HEMBA100 4705,  
 HEMBA1004709, HEMBA1004711, HEMBA1004736, HEMBA1004751, HEMBA1004752, HEMBA10 04753,  
 HEMBA1004756, HEMBA1004758, HEMBA1004768, HEMBA1004771, HEMBA1004795, HEMBA1 004806,  
 HEMBA1004850, HEMBA1004863, HEMBA1004889, HEMBA1004923, HEMBA1004929, HEMBA 1004930,  
 35 HEMBA1004944, HEMBA1004972, HEMBA1004980, HEMBA1005019, HEMBA1005035, HEMB A1005050,  
 HEMBA1005066, HEMBA1005075, HEMBA1005079, HEMBA1005083, HEMBA1005113, HEM BA1005133,  
 HEMBA1005149, HEMBA1005219, HEMBA1005331, HEMBA1005338, HEMBA1005367, HE MBA1005411,  
 HEMBA1005468, HEMBA1005469, HEMBA1005517, HEMBA1005518, HEMBA1005526, H EMBA1005548,  
 HEMBA1005576, HEMBA1005583, HEMBA1005595, HEMBA1005609, HEMBA1005685, HEMBA1005732,  
 40 HEMBA1005755, HEMBA1005813, HEMBA1005815, HEMBA1005834, HEMBA1005884 , HEMBA1005963,  
 HEMBA1005991,  
 HEMBA1006031, HEMBA1006100, HEMBA1006121, HEMBA1006138, HEMBA1006173, HEMBA1006182 ,  
 HEMBA1006198, HEMBA1006252, HEMBA1006272, HEMBA1006278, HEMBA1006291, HEMBA100629 3,  
 HEMBA1006344, HEMBA1006349, HEMBA1006377, HEMBA1006381, HEMBA1006398, HEMBA10064 24,  
 45 HEMBA1006467, HEMBA1006474, HEMBA1006483, HEMBA1006492, HEMBA1006494, HEMBA1006 497,  
 HEMBA1006502, HEMBA1006530, HEMBA1006579, HEMBA1006583, HEMBA1006643, HEMBA100 6674,  
 HEMBA1006682, HEMBA1006709, HEMBA1006717, HEMBA1006737, HEMBA1006754, HEMBA10 06758,  
 HEMBA1006767, HEMBA1006795, HEMBA1006796, HEMBA1006807, HEMBA1006832, HEMBA1 006900,  
 HEMBA1006973, HEMBA1006976, HEMBA1006993, HEMBA1006996, HEMBA1007002, HEMBA 1007052,  
 50 HEMBA1007062, HEMBA1007066, HEMBA1007151, HEMBA1007203, HEMBA1007281, HEMB A1007300,  
 HEMBA1007320, HEMBA1007342,  
 HEMBB1000008, HEMBB1000024, HEMBB1000025, HEMBB1000083, HEMBB1000103, HEMBB1000173 ,  
 HEMBB1000175, HEMBB1000198, HEMBB1000240, HEMBB1000244, HEMBB1000338, HEMBB100033 9,  
 HEMBB1000391, HEMBB1000438, HEMBB1000510, HEMBB1000550, HEMBB1000556, HEMBB10005 89,  
 55 HEMBB1000591, HEMBB1000593, HEMBB1000632, HEMBB1000671, HEMBB1000673, HEMBB1000 693,  
 HEMBB1000706, HEMBB1000725, HEMBB1000781, HEMBB1000810, HEMBB1000826, HEMBB100 0835,  
 HEMBB1000848, HEMBB1000852, HEMBB1000870, HEMBB1000887, HEMBB1000908, HEMBB10 00927,  
 HEMBB1000947, HEMBB1000973, HEMBB1000991, HEMBB1001011, HEMBB1001014, HEMBB1 001020,

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HEMBB1001024, HEMBB1001058, HEMBB1001096, HEMBB1001105, HEMBB1001126, HEMBB 1001169,  
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HEMBB1001394, HEMBB1001410, HEMBB1001426, HEMBB1001449, HEMBB1001482, HEM BB1001531,  
HEMBB1001562, HEMBB1001564, HEMBB1001585, HEMBB1001635, HEMBB1001653, HE MBB1001665,  
5 HEMBB1001668, HEMBB1001685, HEMBB1001707, HEMBB1001760, HEMBB1001785, H EMBB1001812,  
HEMBB1001816, HEMBB1001831, HEMBB1001834, HEMBB1001839, HEMBB1001872, HEMBB1001874,  
HEMBB1001908, HEMBB1001910, HEMBB1001915, HEMBB1001950, HEMBB1001957, HEMBB1001962,  
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10 HEMBB1002359, HEMBB1002415, HEMBB1002442, HEMBB1002457, HEMBB1002492, HEMBB10024 95,  
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MAMMA1000020, MAMMA1000025, MAMMA1000057, MAMMA1000069, MAMMA1000084 , MAMMA1000139,  
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MAMMA1000567, MAMMA1000583, MAMMA1000623, MAMMA1000664, MAMMA100 0672, MAMMA1000684,  
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MAMMA1000843, MAMMA1000856, MAMMA1000865, MAMMA1000875, MAMMA1 000897, MAMMA1000906,  
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20 MAMMA1001078, MAMMA1001080, MAMMA1001091, MAMMA1001110, MAMM A1001126, MAMMA1001143,  
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30 MAMMA1002156, MAMMA1002170, MAMMA1002174, MAMMA1002243, MAMMA1002268, MAMMA100226 9,  
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35 MAMMA1002685, MAMMA1002699, MAMMA1002711, MAMMA1002782, MAMMA1002807, MAMMA1 002842,  
MAMMA1002843, MAMMA1002868, MAMMA1002881, MAMMA1002886, MAMMA1002895, MAMMA 1002938,  
MAMMA1002964, MAMMA1003013, MAMMA1003015, MAMMA1003044, MAMMA1003049, MAMM A1003056,  
MAMMA1003066, MAMMA1003099, MAMMA1003104, MAMMA1003127,  
NT2RM1000018, NT2RM1000059, NT2RM1000118, NT2RM1000131, NT2RM1000186, NT2RM1000242 ,  
40 NT2RM1000252, NT2RM1000260, NT2RM1000271, NT2RM1000314, NT2RM1000318, NT2RM100035 4,  
NT2RM1000399, NT2RM1000421, NT2RM1000563, NT2RM1000623, NT2RM1000666, NT2RM10007 25,  
NT2RM1000742, NT2RM1000772, NT2RM1000802, NT2RM1000811, NT2RM1000850, NT2RM1000 885,  
NT2RM1000894, NT2RM1000978, NT2RM1001059, NT2RM1001066, NT2RM1001072, NT2RM100 1082,  
NT2RM1001085, NT2RM1001092, NT2RM1001115,  
45 NT2RM2000042, NT2RM2000124, NT2RM2000250, NT2RM2000259, NT2RM2000363, NT2RM2000374 ,  
NT2RM2000469, NT2RM2000556, NT2RM2000566, NT2RM2000567, NT2RM2000588, NT2RM200059 4,  
NT2RM2000599, NT2RM2000623, NT2RM2000635, NT2RM2000636, NT2RM2000718, NT2RM20007 95,  
NT2RM2000951, NT2RM2001004, NT2RM2001105, NT2RM2001141, NT2RM2001247, NT2RM2001 312,  
NT2RM2001324, NT2RM2001499, NT2RM2001544, NT2RM2001547, NT2RM2001575, NT2RM200 1588,  
50 NT2RM2001641, NT2RM2001652, NT2RM2001659, NT2RM2001670, NT2RM2001698, NT2RM20 01699,  
NT2RM2001727, NT2RM2001753, NT2RM2001771, NT2RM2001797, NT2RM2001805, NT2RM2 001930,  
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## Group (2): 377 clones

Among the 3690 clones, the following 377 clones were full-length, and a novel clone, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

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50 Group (3): 1797 clones

Among the 3690 clones, the following 1797 clones were full-length, and novel clones, in which the number of the identical human ESTs for the 5'-end sequence is not more than 20 (except clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).

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 Y79AA1002487,

## Group (4): 453 clones

Among the 1857 clones having the maximal ATGpr1 score not more than 0.3 (including the 9 clones whose 5'-end  
 20 sequence does not contain the ATG codon), the following 453 clones were judged to be full-length since their ATGpr2  
 score was 0.3 or higher (Table 11). The clones were novel clones, in which at least either of the 5'-end or 3'-end  
 sequence is not identical to any of human ESTs.

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 MAMMA1001397, MAMMA1001420, MAMMA1001547, MAMMA1001670, MAMMA10 01679, MAMMA1001711,

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MAMMA1001745, MAMMA1001760, MAMMA1001769, MAMMA1001815, MAMMA1 001907, MAMMA1002056, MAMMA1002078, MAMMA1002093, MAMMA1002125, MAMMA1002132, MAMMA 1002145, MAMMA1002250, MAMMA1002311, MAMMA1002411, MAMMA1002498, MAMMA1002571, MAMM A1002701, MAMMA1002727, MAMMA1002728, MAMMA1002746, MAMMA1002764, MAMMA1002765, MAM MA1002820, MAMMA1002830, 5 MAMMA1002909, MAMMA1002941, MAMMA1002973, MAMMA1003004, MA MMA1003007, MAMMA1003039, MAMMA1003089, NT2RM4000086, NT2RM4000265, NT2RM4000414, NT2RM4000779, NT2RM4000855, NT2RM4001160 , NT2RM4001313, NT2RM4001437, NT2RM4001754, NT2RM4001953, NT2RM4001984, NT2RP200007 7, NT2RP2000183, NT2RP2000420, NT2RP2000678, NT2RP2000715, NT2RP2000842, NT2RP20009 70, 10 NT2RP2001149, NT2RP2001226, NT2RP2001295, NT2RP2001347, NT2RP2001569, NT2RP2001 663, NT2RP2001936, NT2RP2002041, NT2RP2002172, NT2RP2002219, NT2RP2002316, NT2RP200 2546, NT2RP2002591, NT2RP2002643, NT2RP2002741, NT2RP2002750, NT2RP2002778, NT2RP20 02857, NT2RP2003000, NT2RP2003073, NT2RP2003237, NT2RP2003394, NT2RP2003517, NT2RP2 003668, NT2RP2003988, NT2RP2004232, NT2RP2004523, NT2RP2004736, NT2RP2004767, NT2RP 2004775, 15 NT2RP2004961, NT2RP2004962, NT2RP2004982, NT2RP2005407, NT2RP2005726, NT2R P2006258, NT2RP2006261, NT2RP2006454, NT2RP3000055, NT2RP3000233, NT2RP3000341, NT2 RP3000418, NT2RP3000451, NT2RP3000561, NT2RP3000582, NT2RP3001281, NT2RP3001339, NT 2RP3001340, NT2RP3001383, NT2RP3001432, NT2RP3001580, NT2RP3001589, NT2RP3002004, N T2RP3002173, NT2RP3003133, NT2RP3003346, NT2RP3003403, NT2RP3003576, NT2RP3003625, NT2RP3003665, 20 NT2RP3003800, NT2RP3003828, NT2RP3004070, NT2RP3004470, NT2RP4000023 , NT2RP4000035, NT2RP4000102, NT2RP4000167, NT2RP4000214, NT2RP4000218, NT2RP400042 4, NT2RP4000915, NT2RP4002075, OVARC1000085, OVARC1000092, OVARC1000145, OVARC1000414, OVARC1000496, OVARC1000526 , OVARC1000948, OVARC1001011, OVARC1001600, OVARC1001805, OVARC1001813, OVARC100184 6, 25 PLACE1000540, PLACE1000599, PLACE1001088, PLACE1001377, PLACE1001440, PLACE1001517 , PLACE1001672, PLACE1001756, PLACE1002157, PLACE1002205, PLACE1002259, PLACE100239 9, PLACE1002477, PLACE1002583, PLACE1002968, PLACE1003238, PLACE1003566, PLACE10035 93, PLACE1003618, PLACE1004274, PLACE1004716, PLACE1004773, PLACE1004815, PLACE1004 979, PLACE1005052, PLACE1005086, PLACE1005128, PLACE1005176, PLACE1005467, PLACE100 5639, 30 PLACE1005850, PLACE1006003, PLACE1006017, PLACE1006288, PLACE1006371, PLACE10 06629, PLACE1007478, PLACE1008330, PLACE1008584, PLACE1008851, PLACE1008941, PLACE1 009039, PLACE1009493, PLACE1009539, PLACE1009637, PLACE1009947, PLACE1010231, PLACE 1010562, PLACE1010579, PLACE1010739, PLACE1010802, PLACE1010896, PLACE1011032, PLAC E1011185, PLACE1011452, PLACE1011465, PLACE1011520, PLACE1011567, PLACE1011719, PLA CE2000011, 35 PLACE2000017, PLACE2000061, PLACE2000187, PLACE2000216, PLACE2000335, PL ACE2000347, PLACE2000366, PLACE2000394, PLACE2000398, PLACE2000425, PLACE2000450, P LACE2000477, PLACE3000119, PLACE3000207, PLACE3000230, PLACE3000271, PLACE3000373, PLACE3000399, PLACE3000401, PLACE3000406, PLACE4000247, PLACE4000320, PLACE4000367 , PLACE4000401, THYRO1000111, THYRO1000187, THYRO1000484, THYRO1000596, THYRO1000625, THYRO1000815 , 40 THYRO1000865, THYRO1001003, THYRO1001031, THYRO1001133, THYRO1001401, THYRO100142 6, THYRO1001434, THYRO1001559, THYRO1001570, THYRO1001706, THYRO1001746, THYRO10017 72, THYRO1001907, Y79AA1000033, Y79AA1000346, Y79AA1000805, Y79AA1001692, Y79AA1002 220,

## Group (5): 24 clones

45 The following 24 clones having low score in the ATGpr1 were judged to be full-length since their ATGpr2 score was 0.3 or higher (Table 11). The clones were novel clones, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000622, HEMBA1000749, HEMBA1000876, HEMBA1001226, HEMBA1001391, HEMBA1002742 , HEMBA1003908, HEMBA1004000, HEMBB1000336, MAMMA1000356, MAMMA1000883, MAMMA100159 0, 50 NT2RP2000289, NT2RP2001467, PLACE1002853, PLACE1003420, PLACE1004836, PLACE10049 13, PLACE1006795, PLACE1008181, PLACE1008715, PLACE4000344, THYRO1000129, THYRO1001 321,

## Group (6): 65 clones

55 The following 65 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were judged to be full-length, since both scores were still the maximum in a cluster compared with those of the other clones(at least 2 clones or more) in the same cluster. The clones were novel clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any of human ESTs.

HEMBA1000604, HEMBA1000673, HEMBA1001024, HEMBA1001026, HEMBA1001734, HEMBA1001784 ,

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HEMBA1001808, HEMBA1003902, HEMBA1004164, HEMBA1004909, HEMBA1005232, HEMBA100557 7,  
HEMBA1006461, HEMBA1006695, HEMBB1001119, HEMBB1001337, HEMBB1001536, HEMBB10018 68,  
HEMBB1002045, HEMBB1002579, MAMMA1000444, MAMMA1000761, MAMMA1000943, MAMMA1001 820,  
MAMMA1002360,  
5 NT2RM4000366, NT2RM4001856, NT2RM4002390, NT2RP2000108, NT2RP2000257, NT2RP2001506,  
NT2RP2002047, NT2RP2002066, NT2RP2002475, NT2RP2004400, NT2RP2004587, NT2RP200528 9,  
NT2RP2005694, NT2RP3001898, NT2RP3003264, NT2RP3003433, NT2RP3003842, OVARC10012 40,  
PLACE1001323, PLACE1002227, PLACE1002500, PLACE1002604, PLACE1002772, PLACE1003 478,  
PLACE1004681, PLACE1005108, PLACE1005932, PLACE1006318, PLACE1006368, PLACE100 6506,  
10 PLACE1006904, PLACE1007557, PLACE1007877, PLACE1009048, PLACE1011109, PLACE10 11643,  
PLACE4000548, THYRO1000279, Y79AA1000410, Y79AA1002103,

### Group (7): 32 clones

The following 32 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were judged to be full-length,  
15 since both scores were still the maximum in a cluster compared with those of the other clones(at least 2 clones or  
more) in the same cluster. The clones were novel clones, in which the number of the identical human ESTs for both  
the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000251, HEMBA1001803, HEMBA1001918, HEMBA1002257, HEMBA1003064, HEMBA1003714 ,  
HEMBA1004405, HEMBA1005508, HEMBB1000054, HEMBB1001142, MAMMA1000175, MAMMA100116 2,  
20 MAMMA1002972, NT2RM4000425, NT2RP2004512, NT2RP2005531, NT2RP2005942, NT2RP20065 54,  
NT2RP3001007, NT2RP3001318, OVARC1000017, OVARC1000068, OVARC1000486, PLACE1001 705,  
PLACE1002319, PLACE1007743, PLACE1007829, PLACE1008630, PLACE1009925, PLACE101 1492,  
PLACE1011749, THYRO1000793,

The following 117 clones, selected by assembling the sequence of the other clones in the same cluster and human  
25 ESTs, have high fullness ratio. The clones were classified into the following group (8) and (9).

HEMBA1001323, HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349,  
HEMBA1002538, HEMBA1003309, HEMBA1003939, HEMBA1004015, HEMBA1004295, HEMBA100467 2,  
HEMBA1004865, HEMBA1005251, HEMBA1006158, HEMBA1006676, HEMBA1006779, HEMBA10072 88,  
HEMBB1000218, HEMBB1000272, HEMBB1000399, HEMBB1000491, HEMBB1000996, HEMBB1001 114,  
30 HEMBB1001850, HEMBB1002015, MAMMA1000287, MAMMA1001683, MAMMA1001686, MAMMA100 2612,  
NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP2000270, NT2RP2000758, NT2RP2001290,  
NT2RP2001526, NT2RP2002124, NT2RP2002736, NT2RP2002753, NT2RP2003456, NT2RP200372 7,  
NT2RP2003871, NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2004580, NT2RP20052 93,  
NT2RP2005476, NT2RP2005753, NT2RP2005815, NT2RP2005841, NT2RP2005857, NT2RP2006 393,  
35 NT2RP2006467, NT2RP3000109, NT2RP3000449, NT2RP3001245, NT2RP3001634, NT2RP300 2056,  
NT2RP3002810, NT2RP3002955, NT2RP3003032, NT2RP3003138, NT2RP3003500, NT2RP30 03819,  
NT2RP4000078, NT2RP4000515, NT2RP4000517, NT2RP4001407, NT2RP4001889, NT2RP4 002905,  
OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395, PLACE1001691 ,  
PLACE1001746, PLACE1001748, PLACE1001845, PLACE1002066, PLACE1003373, PLACE100390 0,  
40 PLACE1004118, PLACE1004256, PLACE1004284, PLACE1004336, PLACE1004506, PLACE10049 34,  
PLACE1005077, PLACE1005111, PLACE1005409, PLACE1005730, PLACE1006076, PLACE1006 360,  
PLACE1006470, PLACE1006760, PLACE1006867, PLACE1007045, PLACE1007111, PLACE100 7807,  
PLACE1008080, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008426, PLACE10 08621,  
PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, PLACE3000276, THYRO1 000805,  
45 THYRO1001365, THYRO1001673, Y79AA1001848,

### Group (8): 36 clones

Among the 117 clones described above, the following 36 clones were novel clones, in which at least either of the  
5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

50 HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349, HEMBA1003939 ,  
HEMBA1004295, HEMBA1004865, HEMBA1006779, HEMBB1000218, HEMBB1000491, HEMBB100099 6,  
HEMBB1001114, MAMMA1000287, MAMMA1001686, MAMMA1002612, NT2RP2002736, NT2RP20037 27,  
NT2RP2004580, NT2RP2005841, NT2RP2006393, PLACE1002066, PLACE1003373, PLACE1003 900,  
PLACE1004118, PLACE1004336, PLACE1004506, PLACE1004934, PLACE1005409, PLACE100 5730,  
55 PLACE1006470, PLACE1008080, PLACE3000276, THYRO1000805, THYRO1001365, THYRO10 01673,

### Group (9): 81 clones

Among the 117 clones described above, the following 81 clones were the clones in which the number of the identical

human ESTs for the 5'-end sequence is not more than 20 (except clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).

5 HEMBA1001323, HEMBA1002538, HEMBA1003309, HEMBA1004015, HEMBA1004672, HEMBA1005251, HEMBA1006158, HEMBA1006676, HEMBA1007288, HEMBB1000272, HEMBB1000399, HEMBB100185 0, HEMBB1002015, MAMMA1001683, NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP20002 70, NT2RP2000758, NT2RP2001290, NT2RP2001526, NT2RP2002124, NT2RP2002753, NT2RP2003 456, NT2RP2003871, NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2005293, NT2RP200 5476, NT2RP2005753, NT2RP2005815, NT2RP2005857, NT2RP2006467, NT2RP3000109, NT2RP30 00449, NT2RP3001245, NT2RP3001634, NT2RP3002056, NT2RP3002810, NT2RP3002955, NT2RP3 003032, NT2RP3003138, NT2RP3003500, NT2RP3003819, NT2RP4000078, NT2RP4000515, NT2RP 4000517, NT2RP4001407, NT2RP4001889, NT2RP4002905, OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395, PLACE1001691, PLACE1001746, PLACE1001748, PLACE1001845, PLACE1004256, PLACE1004284, PLACE100507 7, PLACE1005111, PLACE1006076, PLACE1006360, PLACE1006760, PLACE1006867, PLACE10070 45, PLACE1007111, PLACE1007807, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008 426, PLACE1008621, PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, Y79AA100 1848,

Group (10): 938 clones

20 The following 938 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be full-length according to the fullness ratio shown in Table 4. The clones were novel clones, in which at least the 5'-end sequence was not identical to any of human ESTs.

25 HEMBA1000042, HEMBA1000213, HEMBA1000264, HEMBA1000355, HEMBA1000366, HEMBA1000411, HEMBA1000422, HEMBA1000428, HEMBA1000434, HEMBA1000442, HEMBA1000464, HEMBA100054 0, HEMBA1000563, HEMBA1000569, HEMBA1000655, HEMBA1000662, HEMBA1000702, HEMBA10007 05, HEMBA1000722, HEMBA1000747, HEMBA1000769, HEMBA1000773, HEMBA1000774, HEMBA1000 827, HEMBA1000843, HEMBA1000852, HEMBA1000870, HEMBA1000908, HEMBA1000985, HEMBA100 0991, HEMBA1001017, HEMBA1001019, HEMBA1001094, HEMBA1001121, HEMBA1001172, HEMBA10 01265, HEMBA1001327, HEMBA1001375, HEMBA1001432, HEMBA1001454, HEMBA1001463, HEMBA1 001515, HEMBA1001517, HEMBA1001557, HEMBA1001566, HEMBA1001585, HEMBA1001589, HEMBA 1001608, HEMBA1001675, HEMBA1001678, HEMBA1001681, HEMBA1001718, HEMBA1001761, HEMB A1001945, HEMBA1001960, HEMBA1001964, HEMBA1001991, HEMBA1002003, HEMBA1002008, HEMBA1002039, HEMBA1002100, HEMBA1002113, HEMBA1002139, HEMBA1002144, HEMBA1002153, HEMBA1002226, HEMBA1002253, HEMBA1002270, HEMBA100232 1, HEMBA1002328, HEMBA1002337, HEMBA1002381, HEMBA1002486, HEMBA1002552, HEMBA10025 55, HEMBA1002558, HEMBA1002561, HEMBA1002590, HEMBA1002628, HEMBA1002629, HEMBA1002 651, HEMBA1002659, HEMBA1002666, HEMBA1002678, HEMBA1002712, HEMBA1002716, HEMBA100 2730, HEMBA1002748, HEMBA1002780, HEMBA1002801, HEMBA1002826, HEMBA1002833, HEMBA10 02886, HEMBA1002896, HEMBA1003083, HEMBA1003086, HEMBA1003098, HEMBA1003133, HEMBA1 003197, HEMBA1003212, HEMBA1003273, HEMBA1003278, HEMBA1003304, HEMBA1003314, HEMBA 1003328, HEMBA1003330, HEMBA1003348, HEMBA1003376, HEMBA1003384, HEMBA1003595, HEMB A1003597, HEMBA1003622, HEMBA1003637, HEMBA1003656, HEMBA1003715, HEMBA1003725, HEM BA1003733, HEMBA1003758, HEMBA1003773, HEMBA1003784, HEMBA1003885, HEMBA1003937, HE MBA1003950, HEMBA1003976, HEMBA1004012, HEMBA1004045, HEMBA1004138, HEMBA1004241, HEMBA1004272, HEMBA1004306, HEMBA1004312, HEMBA1004334, HEMBA1004354, HEMBA1004356, HEMBA1004366, HEMBA100439 4, HEMBA1004396, HEMBA1004429, HEMBA1004460, HEMBA1004461, HEMBA1004482, HEMBA10045 06, HEMBA1004538, HEMBA1004586, HEMBA1004617, HEMBA1004629, HEMBA1004631, HEMBA1004 666, HEMBA1004670, HEMBA1004733, HEMBA1004816, HEMBA1004820, HEMBA1004918, HEMBA100 4956, HEMBA1004960, HEMBA1004978, HEMBA1004995, HEMBA1005008, HEMBA1005062, HEMBA10 05274, HEMBA1005275, HEMBA1005293, HEMBA1005304, HEMBA1005315, HEMBA1005372, HEMBA1 005389, HEMBA1005426, HEMBA1005500, HEMBA1005506, HEMBA1005511, HEMBA1005520, HEMBA 1005568, HEMBA1005570, HEMBA1005616, HEMBA1005627, HEMBA1005631, HEMBA1005632, HEMB A1005670, HEMBA1005699, HEMBA1005705, HEMBA1005765, HEMBA1005780, HEMBA1005853, HEM BA1005909, HEMBA1005931, HEMBA1005934, HEMBA1005962, HEMBA1005999, HEMBA1006002, HEMBA1006005, HEMBA1006042, HEMBA1006067, HEMBA1006090, HEMBA1006142, HEMBA1006268, HEMBA1006334, HEMBA1006359, HEMBA1006416, HEMBA1006419, HEMBA100642 1, HEMBA1006446, HEMBA1006471, HEMBA1006486, HEMBA1006489, HEMBA1006546, HEMBA10065 69,

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HEMBA1006595, HEMBA1006617, HEMBA1006635, HEMBA1006648, HEMBA1006665, HEMBA1006 821,  
 HEMBA1006849, HEMBA1006865, HEMBA1006929, HEMBA1007045, HEMBA1007051, HEMBA100 7073,  
 HEMBA1007113, HEMBA1007256, HEMBA1007273, HEMBA1007322, HEMBA1007347, HEMBB1000039,  
 HEMBB1000044, HEMBB1000059, HEMBB1000089, HEMBB1000099, HEMBB1000113, HEMBB1000141,  
 5 HEMBB1000250, HEMBB1000264, HEMBB1000274, HEMBB1000284, HEMBB100030 7, HEMBB1000312,  
 HEMBB1000317, HEMBB1000337, HEMBB1000341, HEMBB1000343, HEMBB10003 69, HEMBB1000376,  
 HEMBB1000434, HEMBB1000441, HEMBB1000455, HEMBB1000472, HEMBB1000 518, HEMBB1000530,  
 HEMBB1000564, HEMBB1000575, HEMBB1000586, HEMBB1000598, HEMBB100 0637, HEMBB1000638,  
 HEMBB1000643, HEMBB1000665, HEMBB1000726, HEMBB1000738, HEMBB10 00770, HEMBB1000794,  
 10 HEMBB1000821, HEMBB1000822, HEMBB1000883, HEMBB1000888, HEMBB1 000890, HEMBB1000910,  
 HEMBB1000959, HEMBB1000981, HEMBB1001037, HEMBB1001051, HEMBB 1001060, HEMBB1001133,  
 HEMBB1001208, HEMBB1001209, HEMBB1001218, HEMBB1001221, HEMB B1001249, HEMBB1001254,  
 HEMBB1001267, HEMBB1001282, HEMBB1001302, HEMBB1001304, HEM BB1001335, HEMBB1001348,  
 HEMBB1001356, HEMBB1001366, HEMBB1001380, HEMBB1001443, HE MBB1001463, HEMBB1001464,  
 15 HEMBB1001521, HEMBB1001527, HEMBB1001537, HEMBB1001555, HEMBB1001586, HEMBB1001619 ,  
 HEMBB1001630, HEMBB1001637, HEMBB1001641, HEMBB1001706, HEMBB1001735, HEMBB100175 3,  
 HEMBB1001762, HEMBB1001802, HEMBB1001880, HEMBB1001899, HEMBB1001921, HEMBB10019 30,  
 HEMBB1001952, HEMBB1001953, HEMBB1001973, HEMBB1001988, HEMBB1002002, HEMBB1002 005,  
 HEMBB1002009, HEMBB1002042, HEMBB1002049, HEMBB1002069, HEMBB1002115, HEMBB100 2139,  
 20 HEMBB1002189, HEMBB1002232, HEMBB1002254, HEMBB1002255, HEMBB1002280, HEMBB10 02306,  
 HEMBB1002364, HEMBB1002371, HEMBB1002381, HEMBB1002453, HEMBB1002477, HEMBB1 002509,  
 HEMBB1002531, HEMBB1002601, HEMBB1002603, HEMBB1002610, HEMBB1002613, HEMBB 1002623,  
 HEMBB1002635, HEMBB1002664, HEMBB1002677, HEMBB1002683, HEMBB1002686, HEMB B1002699,  
 HEMBB1002712,  
 25 MAMMA1000009, MAMMA1000045, MAMMA1000103, MAMMA1000133, MAMMA1000134, MAMMA1000155 ,  
 MAMMA1000241, MAMMA1000254, MAMMA1000264, MAMMA1000266, MAMMA1000340, MAMMA100038 5,  
 MAMMA1000423, MAMMA1000424, MAMMA1000446, MAMMA1000478, MAMMA1000501, MAMMA10005 16,  
 MAMMA1000565, MAMMA1000585, MAMMA1000605, MAMMA1000616, MAMMA1000621, MAMMA1000 643,  
 MAMMA1000669, MAMMA1000696, MAMMA1000707, MAMMA1000714, MAMMA1000718, MAMMA100 0732,  
 30 MAMMA1000733, MAMMA1000839, MAMMA1000845, MAMMA1000855, MAMMA1000863, MAMMA100 0867,  
 MAMMA1000880, MAMMA1000905, MAMMA1000942, MAMMA1000957, MAMMA1000987, MAMMA1 000998,  
 MAMMA1001003, MAMMA1001024, MAMMA1001030, MAMMA1001035, MAMMA1001050, MAMMA 1001067,  
 MAMMA1001082, MAMMA1001092, MAMMA1001145, MAMMA1001161, MAMMA1001203, MAMM A1001243,  
 MAMMA1001268, MAMMA1001280, MAMMA1001298, MAMMA1001322, MAMMA1001324, MAM MA1001383,  
 35 MAMMA1001408, MAMMA1001435, MAMMA1001442, MAMMA1001446,  
 MAMMA1001501, MAMMA1001575, MAMMA1001606, MAMMA1001671, MAMMA1001715, MAMMA1001740 ,  
 MAMMA1001788, MAMMA1001818, MAMMA1001854, MAMMA1001878, MAMMA1001931, MAMMA100199 2,  
 MAMMA1002032, MAMMA1002082, MAMMA1002084, MAMMA1002108, MAMMA1002118, MAMMA10021 40,  
 MAMMA1002215, MAMMA1002267, MAMMA1002298, MAMMA1002299, MAMMA1002310, MAMMA1002 322,  
 40 MAMMA1002339, MAMMA1002347, MAMMA1002352, MAMMA1002361, MAMMA1002392, MAMMA100 2417,  
 MAMMA1002428, MAMMA1002446, MAMMA1002475, MAMMA1002480, MAMMA1002545, MAMMA10 02556,  
 MAMMA1002566, MAMMA1002597, MAMMA1002603, MAMMA1002623, MAMMA1002625, MAMMA1 002629,  
 MAMMA1002636, MAMMA1002662, MAMMA1002698, MAMMA1002708, MAMMA1002721, MAMMA 1002744,  
 MAMMA1002754, MAMMA1002758, MAMMA1002780, MAMMA1002833, MAMMA1002835, MAMM A1002838,  
 45 MAMMA1002844, MAMMA1002858, MAMMA1002880, MAMMA1002887, MAMMA1002908, MAM MA1002930,  
 MAMMA1002970, MAMMA1002982, MAMMA1003003, MAMMA1003019, MAMMA1003026, MA MMA1003031,  
 MAMMA1003040, MAMMA1003055,  
 NT2RM4000046, NT2RM4000085, NT2RM4000200, NT2RM4000244, NT2RM4000368, NT2RM4000979 ,  
 NT2RM4001016, NT2RM4001519, NT2RM4001557, NT2RM4001605, NT2RM4001810, NT2RM400185 8,  
 50 NT2RM4001930, NT2RM4002067, NT2RM4002278, NT2RM4002281, NT2RM4002287, NT2RM40023 83,  
 NT2RM4002479, NT2RM4002504, NT2RM4002532, NT2RP2000027, NT2RP2000098, NT2RP2000 258,  
 NT2RP2000327, NT2RP2000337, NT2RP2000459, NT2RP2000498, NT2RP2000987, NT2RP200 1277,  
 NT2RP2001312, NT2RP2001423, NT2RP2001445, NT2RP2001449, NT2RP2001677, NT2RP20 01699,  
 NT2RP2001720, NT2RP2001740, NT2RP2001762, NT2RP2001813, NT2RP2001869, NT2RP2 001943,  
 55 NT2RP2002032, NT2RP2002070, NT2RP2002105, NT2RP2002137, NT2RP2002192, NT2RP 2002256,  
 NT2RP2002259, NT2RP2002394, NT2RP2002439, NT2RP2002457, NT2RP2002504, NT2R P2002606,  
 NT2RP2002727, NT2RP2002740, NT2RP2002752, NT2RP2002839, NT2RP2002987, NT2RP2003129,  
 NT2RP2003161, NT2RP2003164, NT2RP2003230, NT2RP2003339, NT2RP2003499, NT2RP2003522,

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NT2RP2003559, NT2RP2003706, NT2RP2003770, NT2RP2003859, NT2RP200388 5, NT2RP2004014,  
 NT2RP2004142, NT2RP2004170, NT2RP2004172, NT2RP2004207, NT2RP20042 70, NT2RP2004300,  
 NT2RP2004339, NT2RP2004347, NT2RP2004425, NT2RP2004490, NT2RP2004 675, NT2RP2004709,  
 NT2RP2004967, NT2RP2005020, NT2RP2005031, NT2RP2005108, NT2RP200 5254, NT2RP2005325,  
 5 NT2RP2005336, NT2RP2005344, NT2RP2005354, NT2RP2005360, NT2RP20 05491, NT2RP2005501,  
 NT2RP2005581, NT2RP2005645, NT2RP2005651, NT2RP2005701, NT2RP2 005719, NT2RP2005741,  
 NT2RP2005908, NT2RP2005980, NT2RP2006098, NT2RP2006103, NT2RP 2006166, NT2RP2006184,  
 NT2RP2006320, NT2RP2006321, NT2RP2006323, NT2RP2006534, NT2R P2006598,  
 NT2RP3000186, NT2RP3000235, NT2RP3000247, NT2RP3000433, NT2RP3000441, NT2RP3000578,  
 10 NT2RP3000584, NT2RP3000622, NT2RP3000628, NT2RP3000685, NT2RP3000742, NT2RP300081 5,  
 NT2RP3000875, NT2RP3000904, NT2RP3001115, NT2RP3001232, NT2RP3001374, NT2RP30014 59,  
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 15 NT2RP3003746, NT2RP3003799, NT2RP3003989, NT2RP3004016, NT2RP3004095, NT2RP3 004110,  
 NT2RP3004145, NT2RP3004148, NT2RP3004215, NT2RP3004399, NT2RP3004475, NT2RP 3004503,  
 NT2RP4000321, NT2RP4000519, NT2RP4000996,  
 OVARC1000133, OVARC1000198, OVARC1000240, OVARC1000427, OVARC1000431, OVARC1000533 ,  
 OVARC1000543, OVARC1000573, OVARC1000578, OVARC1000678, OVARC1000679, OVARC100070 0,  
 20 OVARC1000769, OVARC1000802, OVARC1000891, OVARC1000897, OVARC1000936, OVARC10009 37,  
 OVARC1000960, OVARC1000971, OVARC1001000, OVARC1001062, OVARC1001072, OVARC1001 085,  
 OVARC1001118, OVARC1001129, OVARC1001169, OVARC1001261, OVARC1001268, OVARC100 1282,  
 OVARC1001330, OVARC1001339, OVARC1001342, OVARC1001357, OVARC1001442, OVARC10 01480,  
 OVARC1001542, OVARC1001547, OVARC1001615, OVARC1001726, OVARC1001795, OVARC1 001900,  
 25 OVARC1001901, OVARC1001911, OVARC1001989, OVARC1002044, OVARC1002066, OVARC 1002143,  
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 PLACE1002962, PLACE1003153, PLACE1003258, PLACE1003343, PLACE1003375, PLACE 1003401,  
 PLACE1003519, PLACE1003521, PLACE1003528, PLACE1003575, PLACE1003583, PLAC E1003584,  
 35 PLACE1003638, PLACE1003760, PLACE1003768, PLACE1003833, PLACE1003850, PLA CE1003858,  
 PLACE1003932,  
 PLACE1004242, PLACE1004257, PLACE1004425, PLACE1004467, PLACE1004471, PLACE1004518 ,  
 PLACE1004658, PLACE1004693, PLACE1004813, PLACE1004827, PLACE1004838, PLACE100484 0,  
 PLACE1004900, PLACE1004972, PLACE1005146, PLACE1005162, PLACE1005453, PLACE10054 71,  
 40 PLACE1005477, PLACE1005502, PLACE1005526, PLACE1005528, PLACE1005574, PLACE1005 584,  
 PLACE1005611, PLACE1005802, PLACE1005884, PLACE1005898, PLACE1005968, PLACE100 6002,  
 PLACE1006129, PLACE1006143, PLACE1006187, PLACE1006205, PLACE1006223, PLACE10 06382,  
 PLACE1006521, PLACE1006534, PLACE1006540, PLACE1006617, PLACE1006640, PLACE1 006779,  
 PLACE1006792, PLACE1006800, PLACE1006805, PLACE1006815, PLACE1006860, PLACE 1006878,  
 45 PLACE1007097, PLACE1007132, PLACE1007140, PLACE1007276, PLACE1007286, PLAC E1007525,  
 PLACE1007677, PLACE1007737, PLACE1007866,  
 PLACE1008045, PLACE1008111, PLACE1008201, PLACE1008231, PLACE1008392, PLACE1008424,  
 PLACE1008437, PLACE1008455, PLACE1008625, PLACE1008748, PLACE1008757, PLACE100879 8,  
 PLACE1008807, PLACE1008920, PLACE1008947, PLACE1009150, PLACE1009246, PLACE10093 08,  
 50 PLACE1009410, PLACE1009477, PLACE1009613, PLACE1009639, PLACE1009879, PLACE1009 888,  
 PLACE1009924, PLACE1009935, PLACE1010069, PLACE1010083, PLACE1010181, PLACE101 0341,  
 PLACE1010624, PLACE1010628, PLACE1010631, PLACE1010662, PLACE1010916, PLACE10 10947,  
 PLACE1011057, PLACE1011133, PLACE1011143, PLACE1011296, PLACE1011340, PLACE1 011419,  
 PLACE1011503, PLACE1011641, PLACE1011649, PLACE1011650, PLACE1011729, PLACE 1011778,  
 55 PLACE1011874, PLACE1011962, PLACE1011995,  
 PLACE2000003, PLACE2000103, PLACE2000115, PLACE2000132, PLACE2000140, PLACE2000176 ,  
 PLACE2000317, PLACE2000342, PLACE2000419, PLACE2000435, PLACE2000455, PLACE200046 5,  
 PLACE3000004, PLACE3000124, PLACE3000136, PLACE3000158, PLACE3000169, PLACE30001 99,

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PLACE3000208, PLACE3000218, PLACE3000341, PLACE3000362, PLACE3000365, PLACE3000 388,  
PLACE3000400, PLACE3000402, PLACE3000475, PLACE4000093, PLACE4000100, PLACE400 0233,  
PLACE4000252, PLACE4000379, PLACE4000411, PLACE4000494,  
THYRO1000026, THYRO1000035, THYRO1000085, THYRO1000132, THYRO1000156, THYRO1000186 ,  
5 THYRO1000190, THYRO1000221, THYRO1000241, THYRO1000438, THYRO1000452, THYRO100055  
8, THYRO1000602, THYRO1000641, THYRO1000658, THYRO1000699, THYRO1000748, THYRO10007 96,  
THYRO1000843, THYRO1000895, THYRO1000974, THYRO1000975, THYRO1001062, THYRO1001 093,  
THYRO1001121, THYRO1001177, THYRO1001262, THYRO1001290, THYRO1001322, THYRO100 1411,  
THYRO1001480, THYRO1001541, THYRO1001573, THYRO1001617, THYRO1001895, Y79AA10 00065,  
10 Y79AA1000405, Y79AA1000538, Y79AA1000802, Y79AA1000969, Y79AA1001061, Y79AA1 001167,  
Y79AA1001384, Y79AA1001594, Y79AA1001875, Y79AA1002211,

Group (11): 228 clones

The following 228 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be full-length according to the fullness ratio shown in Table 7. The clones were a novel clone, in which at least the 3'-end sequence was not identical to any of human ESTs.

HEMBA1000111, HEMBA1000243, HEMBA1000338, HEMBA1000390, HEMBA1000418, HEMBA1000459 ,  
HEMBA1000518, HEMBA1000791, HEMBA1000974, HEMBA1001007, HEMBA1001077, HEMBA100109 9,  
HEMBA1001123, HEMBA1001294, HEMBA1001299, HEMBA1001442, HEMBA1001861, HEMBA10019 42,  
20 HEMBA1001979, HEMBA1002160, HEMBA1002162, HEMBA1002166, HEMBA1002389, HEMBA1002 498,  
HEMBA1002592, HEMBA1002679, HEMBA1002944, HEMBA1003034, HEMBA1003142, HEMBA100 3548,  
HEMBA1003571, HEMBA1003579, HEMBA1003598, HEMBA1003630, HEMBA1003958, HEMBA10 04038,  
HEMBA1004042, HEMBA1004049, HEMBA1004132, HEMBA1004225, HEMBA1004748, HEMBA1 004770,  
HEMBA1005039, HEMBA1005152, HEMBA1005159, HEMBA1005359, HEMBA1005408, HEMBA 1005410,  
25 HEMBA1005443, HEMBA1005497, HEMBA1005552, HEMBA1005634, HEMBA1005717, HEMB A1005829,  
HEMBA1005921, HEMBA1006328, HEMBA1006438, HEMBA1006540, HEMBA1006780, HEM BA1006921,  
HEMBA1006938, HEMBA1007017, HEMBA1007341,  
HEMBB1000050, HEMBB1000420, HEMBB1000487, HEMBB1000490, HEMBB1000523, HEMBB1000684 ,  
HEMBB1000840, HEMBB1000876, HEMBB1000913, HEMBB1000915, HEMBB1000917, HEMBB100106 3,  
30 HEMBB1001102, HEMBB1001177, HEMBB1001253, HEMBB1001271, HEMBB1001454, HEMBB10015 00,  
HEMBB1001588, HEMBB1001618, HEMBB1001704, HEMBB1001717, HEMBB1001756, HEMBB1001 867,  
HEMBB1001967, HEMBB1002043, HEMBB1002094, HEMBB1002190, HEMBB1002520, HEMBB100 2556,  
HEMBB1002590,  
MAMMA1000117, MAMMA1000227, MAMMA1000270, MAMMA1000302, MAMMA1000348, MAMMA1000413 ,  
35 MAMMA1000431, MAMMA1000483, MAMMA1000559, MAMMA1000723, MAMMA1000744, MAMMA100075 2,  
MAMMA1000782, MAMMA1000802, MAMMA1000851, MAMMA1000877, MAMMA1000962, MAMMA10010 74,  
MAMMA1001133, MAMMA1001191, MAMMA1001206, MAMMA1001249, MAMMA1001330, MAMMA1001 452,  
MAMMA1001502, MAMMA1001663, MAMMA1001806, MAMMA1001836, MAMMA1001880, MAMMA100 1890,  
MAMMA1001908, MAMMA1001963, MAMMA1002058, MAMMA1002155, MAMMA1002158, MAMMA10 02230,  
40 MAMMA1002282, MAMMA1002293, MAMMA1002332, MAMMA1002359, MAMMA1002494, MAMMA1 002573,  
MAMMA1002618, MAMMA1002622, MAMMA1002646, MAMMA1002748, MAMMA1002871, MAMMA 1002892,  
MAMMA1003140,  
NT2RM4000327, NT2RM4000532, NT2RM4001414, NT2RM4001776, NT2RM4002499, NT2RP2000076 ,  
NT2RP2000523, NT2RP2000603, NT2RP2000644, NT2RP2000731, NT2RP2001196, NT2RP200167 8,  
45 NT2RP2001926, NT2RP2003206, NT2RP2003704, NT2RP2003912, NT2RP2004396, NT2RP20046 81,  
NT2RP3000512, NT2RP3000542, NT2RP3000736, NT2RP3000865, NT2RP3002057, NT2RP3003 384,  
NT2RP3004334, NT2RP3004349, NT2RP3004527, NT2RP4000049, OVARC1000058, OVARC100 0191,  
OVARC1000302, OVARC1001051, OVARC1001117, OVARC1001668, OVARC1001745, OVARC10 01812,  
OVARC1001928,  
50 PLACE1000583, PLACE1001272, PLACE1001414, PLACE1002537, PLACE1003205, PLACE1003361 ,  
PLACE1003516, PLACE1003864, PLACE1004384, PLACE1004491, PLACE1004793, PLACE100498 5,  
PLACE1005085, PLACE1005666, PLACE1005845, PLACE1006164, PLACE1006262, PLACE10067 54,  
PLACE1007852, PLACE1008331, PLACE1008643, PLACE1009050, PLACE1009155, PLACE1009 172,  
PLACE1009183, PLACE1009200, PLACE1009398, PLACE1009595, PLACE1010702, PLACE101 0891,  
55 PLACE1011165, PLACE1011203, PLACE1011375, PLACE1011576, PLACE1011762, PLACE10 11964,  
PLACE2000136, PLACE2000264, PLACE2000305, PLACE2000379, PLACE3000220, PLACE4 000250,  
THYRO1000092, THYRO1000471, THYRO1000852, THYRO1001534, THYRO1001595, THYRO 1001745.



**EXAMPLE 12**

Homology search using the 5'-end and 3'-end sequences of the selected clones.

**[0172]** The 5' -end sequences of the selected 5547 clones were used for the homology search of the SwissProt, and both the 5' -end 3' -end sequences were used for the search of the GenBank and UniGene (ref. the result of the search of the SwissProt, GenBank (except ESTs and STSs), and UniGene (Human) was attached).

**[0173]** Each search result is shown in the last part of this SPECIFICATION by arranging each item in the following format.

|            | 5' -end sequence         | 3' -end sequence         |
|------------|--------------------------|--------------------------|
| Swiss-Prot | Homology search result 1 | -----                    |
| GenBank    | Homology search result 2 | Homology search result 3 |
| UniGene    | Homology search result 4 | Homology search result 5 |

**[0174]** According to the top hit data, at least 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth. Among the clones predicted belonging to any of the categories, 1001 clones were estimated to have a relatively high homology with the known proteins or genes in the same category. In addition, 429 clones were estimated to have a relatively low homology with the known proteins in the same category.

**[0175]** Herein, the term "relatively high homology" is defined as having 60% or more identity and the P-value  $10^{-10}$  or less in comparison with known sequences in the SwissProt database, or 64% or more identity and the P-value  $10^{-15}$  or less in comparison with those in the GenBank and UniGene databases (see the attached list). Also, the term "relatively low homology" is defined as not fulfilling the requirements to be "relatively high homology", but still having the scores, 25% or more identity and the P-value  $10^{-6}$  or less, using the sequence having 55 nucleotides or more, in comparison with known sequences in the SwissProt database (see the attached list). The P-value is a score obtained statistically by taking into account the probability of occurrence of the similarity between two sequences. In general, the smaller P-value reflects the higher similarity (Altschul S.F., Gish W., Miller W., Myers E.W., and Lipman D.J. (1990) "Basic local alignment search tool" J.Mol. Biol., 215: 403-410; Gish W., and States D.J. (1993) "Identification of protein coding regions by database similarity search" Nature Genet. 3: 266-272).

**[0176]** The clones predicted to encode a protein in the category of secretory protein or membrane protein have the keywords, "signal", "transmembrane", "membrane", "extracellular matrix", "receptor", "G-protein coupled receptor", "ionic channel", "voltage-gated channel", "calcium channel", "cell adhesion", "collagen", or "connective tissue", or descriptions from which the clone can be predicted to be a secretory or membrane protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0177]** The clones predicted to encode a protein in the category of glycoprotein have the keywords, "glycoprotein", or descriptions from which the clone can be predicted to be a glycoprotein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0178]** The clones predicted to encode a protein in the category of proteins associated with signal transduction have the keywords, "serine/threonine-protein kinase", "tyrosine-protein kinase", "SH3 domain", or "WD repeat", or descriptions from which the clone can be predicted to be a protein associated with signal transduction (such as "ADP-ribosylation factor"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0179]** The clones predicted to encode a protein in the category of proteins associated with transcription have the keywords, "transcription regulation", "zinc finger", or "homeobox", or descriptions from which the clone can be predicted to be a protein associated with transcription, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0180]** The clones predicted to encode a protein in the category of proteins associated with diseases are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein that is deposited in the Online Mendelian Inheritance in Man (OMIM) database, which is a database of human genes and diseases, or the top hit data has descriptions from which the clone can be predicted to be a protein associated with diseases.

**[0181]** The clones predicted to encode a protein in the category of enzyme or proteins associated with metabolism are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein with E.C.No. (Enzyme commission number), or the top hit data has descriptions from which the clone can be predicted to be an enzyme or protein associated with metabolism (such as "metabolism", "oxidoreductase", or "lipid").

**[0182]** The clones predicted to encode a protein in the category of proteins associated with cell division or cell proliferation have the keywords, "cell division", "cell cycle", "mitosis", or "chromosomal protein", or descriptions from which the clone can be predicted to be a protein associated with cell division or cell proliferation (such as "histone", "cell growth", or "apoptosis"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0183]** The clones predicted to encode a protein in the category of proteins associated with cytoskeleton have the keywords, "structural protein", "cytoskeleton", "actin-binding", or "microtubules", or descriptions from which the clone can be predicted to be a protein associated with cytoskeleton, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0184]** The clones predicted to encode a protein in the category of proteins associated with RNA synthesis include the above clones predicted to be a protein associated with transcription, and also the clones which have the keywords, "RNA splicing", or "RNA processing", or descriptions from which the clone can be predicted to be a protein associated with RNA synthesis (such as "RNA helicase", "polyadenylation", or "RNA transport"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0185]** The clones predicted to encode a protein in the category of nuclear protein include the above clones predicted to be a protein associated with transcription, and also the clones which have the keyword, "nuclear protein", or descriptions from which the clone can be predicted to be a nuclear protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0186]** The clones predicted to encode a protein in the category of proteins associated with protein synthesis or transport have the keywords, "translation regulation", "protein biosynthesis", "amino-acid biosynthesis", "ribosomal protein", or "protein transport", or descriptions from which the clone can be predicted to be a protein associated with protein synthesis or transport (such as "signal recognition particle", "ubiquitin", "proteosome", or "protease"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0187]** The clones predicted to encode a protein in the category of proteins associated with cellular defense have the keywords, "heat shock", "chaperone", "DNA repair", or "DNA damage", or descriptions from which the clone can be predicted to be a protein associated with cellular defense, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0188]** The clones predicted to encode a protein in the category of proteins associated with development or growth have the keyword, "developmental protein", or descriptions from which the clone can be predicted to be a protein associated with development or growth, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

**[0189]** The following 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth.

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000030, HEMBA1000158, HEMBA1000185, HEMBA1000201, HEMBA1000216, HEMBA1000303, HEMBA1000459, HEMBA1000488, HEMBA1000491, HEMBA1000523, HEMBA1000531, HEMBA1000542, HEMBA1000561, HEMBA1000569, HEMBA1000588, HEMBA1000591, HEMBA1000657, HEMBA1000673, HEMBA1000752, HEMBA1000827, HEMBA1000851, HEMBA1000852, HEMBA1000972, HEMBA1000991, HEMBA1001017, HEMBA1001019, HEMBA1001059, HEMBA1001071, HEMBA1001088, HEMBA1001123, HEMBA1001137, HEMBA1001174, HEMBA1001257, HEMBA1001302, HEMBA1001351, HEMBA1001387, HEMBA1001407, HEMBA1001476, HEMBA1001510, HEMBA1001569, HEMBA1001570, HEMBA1001579, HEMBA1001595, HEMBA1001620, HEMBA1001672, HEMBA1001678, HEMBA1001714, HEMBA1001744, HEMBA1001800, HEMBA1001804, HEMBA1001809, HEMBA1001819, HEMBA1001822, HEMBA1001847, HEMBA1001896, HEMBA1001913, HEMBA1001921, HEMBA1002003, HEMBA1002035, HEMBA1002092, HEMBA1002102, HEMBA1002150, HEMBA1002160, HEMBA1002161, HEMBA1002162, HEMBA1002212, HEMBA1002229, HEMBA1002257, HEMBA1002341, HEMBA1002363, HEMBA1002417, HEMBA1002495, HEMBA1002513, HEMBA1002547, HEMBA1002555, HEMBA1002569, HEMBA1002609, HEMBA1002688, HEMBA1002716, HEMBA1002810, HEMBA1002896,

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HEMBA1002939, HEMBA1002973, HEMBA1002999, HEMBA1003046, HEMBA100307 1, HEMBA1003077,  
 HEMBA1003136, HEMBA1003148, HEMBA1003179, HEMBA1003235, HEMBA10032 86, HEMBA1003291,  
 HEMBA1003314, HEMBA1003418, HEMBA1003433, HEMBA1003538,  
 HEMBA1003545, HEMBA1003555, HEMBA1003560, HEMBA1003568, HEMBA1003569, HEMBA1003581 ,  
 5 HEMBA1003598, HEMBA1003615, HEMBA1003621, HEMBA1003680, HEMBA1003684, HEMBA100369 0,  
 HEMBA1003720, HEMBA1003760, HEMBA1003773, HEMBA1003783, HEMBA1003805, HEMBA10038 36,  
 HEMBA1003866, HEMBA1003953, HEMBA1004097, HEMBA1004131, HEMBA1004168, HEMBA1004 202,  
 HEMBA1004207, HEMBA1004227, HEMBA1004248, HEMBA1004276, HEMBA1004286, HEMBA100 4321,  
 HEMBA1004353, HEMBA1004354, HEMBA1004356, HEMBA1004389, HEMBA1004408, HEMBA10 04479,  
 10 HEMBA1004534, HEMBA1004604, HEMBA1004669, HEMBA1004734, HEMBA1004752, HEMBA1 004753,  
 HEMBA1004756, HEMBA1004758, HEMBA1004795, HEMBA1004807, HEMBA1004847, HEMBA 1005009,  
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**[0190]** Among the clones, 1001 clones were estimated to have a relatively high homology with the known proteins  
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 THYRO1000358, THYRO1000387, THYRO1000471, THYRO1000501, THYRO1000585, THYRO1000666,  
 THYRO1000783, THYRO1000926, THYRO1000974, THYRO1001100, THYRO1001121, THYRO1001189,  
 THYRO1001406, THYRO1001458, THYRO1001595, THYRO1001605, THYRO1001617, THYRO1001671,  
 Y79AA1000037, Y79AA1000059, Y79AA1000214, Y79AA1000346, Y79AA1000349, Y79AA1000469,  
 50 Y79AA1000560, Y79AA1000627, Y79AA1000705, Y79AA1000734, Y79AA1000752, Y79AA1000784,  
 Y79AA1000833, Y79AA1000966, Y79AA1000968, Y79AA1000985, Y79AA1001105, Y79AA1001236,  
 Y79AA1001299, Y79AA1001391, Y79AA1001533, Y79AA1001548, Y79AA1001679, Y79AA1001827,  
 Y79AA1001866, Y79AA1002093, Y79AA1002258, Y79AA1002361, Y79AA1002416,  
**[0191]** The following 429 clones were estimated to have a relatively low homology with the known proteins in the  
 55 same category.

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HEMBA1000012, HEMBA1000185, HEMBA1000488, HEMBA1000491, HEMBA1000569,  
HEMBA1000752,

5 HEMBA1001137, HEMBA1001407, HEMBA1001476, HEMBA1001744, HEMBA1001800,  
HEMBA1001804, HEMBA1001809, HEMBA1001847,

10 HEMBA1002035, HEMBA1002102, HEMBA1002150, HEMBA1002212, HEMBA1002495,  
HEMBA1002555, HEMBA1002609, HEMBA1002688, HEMBA1002939,

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HEMBA1003071, HEMBA1003077, HEMBA1003136, HEMBA1003179, HEMBA1003235,  
HEMBA1003291, HEMBA1003418,

5 HEMBA1003568, HEMBA1003598, HEMBA1003680, HEMBA1003684, HEMBA1003836,  
HEMBA1003953,

10 HEMBA1004276, HEMBA1004408, HEMBA1004669, HEMBA1004734,

HEMBA1005475, HEMBA1005595, HEMBA1005737, HEMBA1005815, HEMBA1005931,

15 HEMBA1006347, HEMBA1006474, HEMBA1006521, HEMBA1006562, HEMBA1006652,  
HEMBA1006737, HEMBA1006914,

HEMBA1007045, HEMBA1007121, HEMBA1007300, HEMBA1007301,

20 HEMBB1000119, HEMBB1000217, HEMBB1000317, HEMBB1000632, HEMBB1000789,

HEMBB1001011, HEMBB1001177, HEMBB1001234, HEMBB1001282, HEMBB1001288,

25 HEMBB1002050, HEMBB1002092,

MAMMA1000085, MAMMA1000672, MAMMA1000841, MAMMA1000897, MAMMA1001008,  
MAMMA1001030, MAMMA1001041,

30 MAMMA1002143, MAMMA1002573, MAMMA1002619, MAMMA1002636, MAMMA1002650,  
MAMMA1002671, MAMMA1002881, MAMMA1002937,

NT2RM1000118, NT2RM1000153, NT2RM1000186, NT2RM1000187, NT2RM1000377,

35 NT2RM1000648, NT2RM1000666, NT2RM1000691, NT2RM1000770, NT2RM1000772,  
NT2RM1000850, NT2RM1000882, NT2RM1000898,

40 NT2RM1001059, NT2RM1001072, NT2RM1001139,

NT2RM2000363, NT2RM2000371, NT2RM2000402, NT2RM2000577, NT2RM2000599,  
NT2RM2000623, NT2RM2000714,

45 NT2RM2001131, NT2RM2001221, NT2RM2001324, NT2RM2001345,

NT2RM2001588, NT2RM2001635, NT2RM2001670, NT2RM2001700, NT2RM2001730,  
50 NT2RM2001785, NT2RM2001797, NT2RM2001823, NT2RM2001936, NT2RM2001989,  
NT2RM2002580,

NT2RM4000030, NT2RM4000085, NT2RM4000155, NT2RM4000156, NT2RM4000169,  
55 NT2RM4000191, NT2RM4000215, NT2RM4000354, NT2RM4000421, NT2RM4000496,  
NT2RM4000734, NT2RM4000751,

NT2RM4001032, NT2RM4001140, NT2RM4001316, NT2RM4001340, NT2RM4001410,  
 NT2RM4001444,  
 5 NT2RM4001611, NT2RM4001629, NT2RM4001746, NT2RM4001776, NT2RM4001783,  
 NT2RM4001930, NT2RM4001979, NT2RM4001987,  
 10 NT2RM4002062, NT2RM4002145, NT2RM4002189, NT2RM4002226, NT2RM4002409,  
 NT2RM4002527, NT2RM4002571, NT2RM4002623,  
 15 NT2RP1000111, NT2RP1000130, NT2RP1000333, NT2RP1000348, NT2RP1000363,  
 NT2RP1000460, NT2RP1000470, NT2RP1000493,  
 NT2RP1000547, NT2RP1000609, NT2RP1001033, NT2RP1001080, NT2RP1001313,  
 20 NT2RP1001543,  
 NT2RP2000006, NT2RP2000133, NT2RP2000161, NT2RP2000183, NT2RP2000257,  
 NT2RP2000448,  
 25 NT2RP2000710, NT2RP2000764, NT2RP2000812, NT2RP2000932, NT2RP2001127,  
 NT2RP2001174, NT2RP2001839, NT2RP2001900,  
 NT2RP2002025, NT2RP2002058, NT2RP2002185, NT2RP2002442, NT2RP2002595,  
 30 NT2RP2002618, NT2RP2002710, NT2RP2002980,  
 NT2RP2003125, NT2RP2003277, NT2RP2003286, NT2RP2003293, NT2RP2003506,  
 NT2RP2003564, NT2RP2003706,  
 35 NT2RP2004098, NT2RP2004187, NT2RP2004568, NT2RP2004791, NT2RP2005022,  
 NT2RP2005037, NT2RP2005038, NT2RP2005204, NT2RP2005344, NT2RP2005465,  
 NT2RP2005496, NT2RP2005531, NT2RP2005690, NT2RP2005763, NT2RP2005767,  
 40 NT2RP2006275,  
 NT2RP3000046, NT2RP3000047, NT2RP3000361, NT2RP3000397, NT2RP3000418,  
 NT2RP3000527, NT2RP3000590, NT2RP3000603, NT2RP3000759, NT2RP3000868,  
 NT2RP3000994,  
 45 NT2RP3001216, NT2RP3001274, NT2RP3001355, NT2RP3001399, NT2RP3001407,  
 NT2RP3001426, NT2RP3001427,  
 50 NT2RP3001587, NT2RP3001708, NT2RP3002056, NT2RP3002273, NT2RP3002377,  
 NT2RP3002399, NT2RP3002663, NT2RP3002785, NT2RP3002909,  
 NT2RP3003061, NT2RP3003500, NT2RP3003672, NT2RP3003701, NT2RP3003716,  
 55 NT2RP3003825, NT2RP3003831,

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NT2RP3004209, NT2RP3004253, NT2RP3004454, NT2RP3004472, NT2RP3004475,  
NT2RP3004507, NT2RP3004569, NT2RP3004578, NT2RP3004617, NT2RP3004669,

NT2RP4000210, NT2RP4000212, NT2RP4000259, NT2RP4000312, NT2RP4000370,  
NT2RP4000417, NT2RP4000449, NT2RP4000457, NT2RP4000498, NT2RP4000528,  
NT2RP4000879, NT2RP4000925,

NT2RP4001041, NT2RP4001095, NT2RP4001122, NT2RP4001126, NT2RP4001148,  
NT2RP4001149, NT2RP4001150, NT2RP4001174, NT2RP4001207, NT2RP4001219,  
NT2RP4001372, NT2RP4001375,

NT2RP4001551, NT2RP4001592, NT2RP4001638, NT2RP4001725, NT2RP4001790,  
NT2RP4001823, NT2RP4001838, NT2RP4001849, NT2RP4001893, NT2RP4001927,  
NT2RP4001946, NT2RP4002408,

NT2RP5003477, NT2RP5003522, NT2RP5003524,

OVARC1000004, OVARC1000087, OVARC1000139, OVARC1000309, OVARC1000543,  
OVARC1000746, OVARC1000846, OVARC1000876, OVARC1000885, OVARC1000912,

OVARC1001180, OVARC1001329, OVARC1001476, OVARC1001555, OVARC1001610,  
OVARC1001762, OVARC1001880, OVARC1001942, OVARC1002050, OVARC1002138,

PLACE1000066, PLACE1000142, PLACE1000420, PLACE1000547, PLACE1000583,  
PLACE1000863,

PLACE1001387, PLACE1001632, PLACE1001692, PLACE1001989,

PLACE1002450, PLACE1002571, PLACE1002722, PLACE1002775, PLACE1002811,  
PLACE1002991,

PLACE1003190, PLACE1003258, PLACE1003420, PLACE1003493, PLACE1003605,  
PLACE1003669, PLACE1003704, PLACE1003915,

PLACE1004197, PLACE1004428, PLACE1004471, PLACE1004629, PLACE1004751,  
PLACE1004902,

PLACE1005287, PLACE1005557, PLACE1005611, PLACE1005763, PLACE1005890,

PLACE1006157, PLACE1006469, PLACE1006731,

PLACE1007238, PLACE1007375, PLACE1007488, PLACE1007544, PLACE1007598,  
PLACE1007729, PLACE1008244, PLACE1008275, PLACE1008947,

PLACE1009094, PLACE1009319, PLACE1009622, PLACE1009721, PLACE1009845,

PLACE1009861,

PLACE1010083, PLACE1010089, PLACE1010106, PLACE1010152, PLACE1010194,  
PLACE1010310, PLACE1010833, PLACE1010960, PLACE1011056, PLACE1011219,  
PLACE1011263, PLACE1011371, PLACE1011492,

PLACE2000034, PLACE2000164, PLACE2000274, PLACE2000399, PLACE2000411,  
PLACE2000458,

PLACE3000148, PLACE3000156, PLACE3000242, PLACE3000322, PLACE3000353,  
PLACE3000373,

PLACE4000009, PLACE4000014, PLACE4000259, PLACE4000431, PLACE4000522,  
PLACE4000558, PLACE4000581, PLACE4000590, PLACE4000612,

SKNMC1000011,

THYRO1000072, THYRO1000852, THYRO1000934, THYRO1000951,

Y79AA1000258, Y79AA1000368, Y79AA1000539, Y79AA1000589, Y79AA1000962;  
Y79AA1001048, Y79AA1001233, Y79AA1001394, Y79AA1001581, Y79AA1001613,  
Y79AA1001692, Y79AA1001848, Y79AA1001874, Y79AA1001963,

Y79AA1002027, Y79AA1002139, Y79AA1002208, Y79AA1002209, Y79AA1002472,  
Y79AA1002482,

(1) Among the 1430 clones, the following 259 clones were predicted to encode a protein in the category of secretory protein or membrane protein (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001351, HEMBA1001407,  
HEMBA1001476, HEMBA1001569, HEMBA1001678, HEMBA1001804, HEMBA1002150, HEMBA100254 7,  
HEMBA1002555, HEMBA1002688, HEMBA1002716, HEMBA1002999, HEMBA1003071, HEMBA10030 77,  
HEMBA1003538, HEMBA1003598, HEMBA1003690, HEMBA1004207, HEMBA1004356, HEMBA1004 389,  
HEMBA1004756, HEMBA1005338, HEMBA1005367, HEMBA1005576, HEMBA1005699, HEMBA100 5963,  
HEMBA1005990, HEMBA1006310, HEMBA1006344, HEMBA1006562, HEMBA1006976, HEMBA10 07045,  
HEMBA1007301, HEMBB1000037, HEMBB1000119, HEMBB1000317, HEMBB1000530, HEMBB1 000915,  
HEMBB1001112, HEMBB1001119, HEMBB1001151, HEMBB1001282, HEMBB1001331, HEMBB 1002042,  
HEMBB1002092, HEMBB1002193, HEMBB1002600, MAMMA1000103, MAMMA1000424, MAMM A1000672,  
MAMMA1000734, MAMMA1000897, MAMMA1001008, MAMMA1001030, MAMMA1001041, MAM MA1001075,  
MAMMA1001080, MAMMA1001751, MAMMA1001754, MAMMA1002143, MAMMA1002219, MA MMA1002485,  
MAMMA1002636, MAMMA1002938, MAMMA1003104, NT2RM1000199, NT2RM1000355, N T2RM1000430,  
NT2RM1000648, NT2RM1000742, NT2RM1000770, NT2RM1000811, NT2RM1000833, NT2RM1000867,  
NT2RM1000882, NT2RM1000883, NT2RM1001139, NT2RM2000374, NT2RM2000402, NT2RM2000422,  
NT2RM2000566, NT2RM2000623, NT2RR2001324, NT2RM2001499, NT2RM200158 8, NT2RM2001592,  
NT2RM2001613, NT2RM2001635, NT2RM2001648, NT2RM2001760, NT2RM20021 09, NT2RM2002145,  
NT2RM4000156, NT2RM4000169, NT2RM4000386, NT2RM4000433, NT2RM4000795, NT2RM4001032,  
NT2RM4001054, NT2RM4001410, NT2RM4001605, NT2RM4001930, NT2RM4001987, NT2RM4002073,  
NT2RM4002145, NT2RM4002189, NT2RM4002558, NT2RM400256 5, NT2RM4002571, NT2RM4002594,  
NT2RP1000130, NT2RP1000326, NT2RP1000363, NT2RP10004 13, NT2RP1000547, NT2RP1000782,  
NT2RP1000856, NT2RP1001247, NT2RP1001313, NT2RP1001 546, NT2RP1001569, NT2RP2000056,

NT2RP2000257, NT2RP2000842, NT2RP2001081, NT2RP200 1991, NT2RP2002025, NT2RP2002193,  
 NT2RP2002256, NT2RP2002312, NT2RP2002479, NT2RP20 02504, NT2RP2003433, NT2RP2003706,  
 NT2RP2003760, NT2RP2004194, NT2RP2004655, NT2RP2 005020, NT2RP2005344, NT2RP2005465,  
 NT2RP2005752, NT2RP2005753, NT2RP2005835, NT2RP 2005933, NT2RP2006275, NT2RP2006565,  
 5 NT2RP2006571, NT2RP3000324, NT2RP3000739, NT2R P3000919, NT2RP3001140, NT2RP3001355,  
 NT2RP3001676, NT2RP3001708, NT2RP3001727, NT2 RP3002659, NT2RP3003059, NT2RP3003101,  
 NT2RP3003203, NT2RP3003212, NT2RP3003242, NT 2RP3003672, NT2RP3003701, NT2RP3003716,  
 NT2RP3003918, NT2RP3004207, NT2RP3004253, N T2RP4000008, NT2RP4000212, NT2RP4000243,  
 NT2RP4000417, NT2RP4000878, NT2RP4000907, NT2RP4000925, NT2RP4000928, NT2RP4001079,  
 10 NT2RP4001117, NT2RP4001150, NT2RP4001174 , NT2RP4001313, NT2RP4001315, NT2RP4001345,  
 NT2RP4001372, NT2RP4001574, NT2RP400182 3, NT2RP4001966, NT2RP5003524, OVARC1000060,  
 OVARC1000326, OVARC1000543, OVARC10006 82, OVARC1000722, OVARC1000912, OVARC1001055,  
 OVARC1001154, OVARC1001261,  
 OVARC1001329, OVARC1001419, OVARC1001506, OVARC1001542, OVARC1001610, OVARC1001713 ,  
 15 OVARC1001802, OVARC1001943, PLACE1000611, PLACE1001092, PLACE1001136, PLACE100129 4,  
 PLACE1002437, PLACE1002500, PLACE1002722, PLACE1002782, PLACE1002816, PLACE10034 20,  
 PLACE1003493, PLACE1003596, PLACE1004104, PLACE1004197, PLACE1004203, PLACE1004 277,  
 PLACE1004629, PLACE1004751, PLACE1005494, PLACE1005804, PLACE1005890, PLACE100 6157,  
 PLACE1007409, PLACE1007852, PLACE1008044, PLACE1008273, PLACE1008309, PLACE10 08603,  
 20 PLACE1008643, PLACE1009659, PLACE1009670, PLACE1009845, PLACE1009861, PLACE1 011371,  
 PLACE1011492, PLACE1011896, PLACE2000034, PLACE2000341, PLACE2000399, PLACE 2000458,  
 PLACE3000020, PLACE3000322, PLACE3000353, PLACE4000052, PLACE4000269, PLAC E4000522,  
 PLACE4000581, THYRO1000783, Y79AA1000258, Y79AA1000346, Y79AA1001874,

(2) The following 111 clones were predicted to encode a protein in the category of glycoprotein (including the clones belonging to plural categories).

HEMBA1000752, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001302, HEMBA1002150 ,  
 HEMBA1002547, HEMBA1002555, HEMBA1003077, HEMBA1003538, HEMBA1003598, HEMBA100386 6,  
 HEMBA1004356, HEMBA1005338, HEMBA1005576, HEMBA1005699, HEMBA1006562, HEMBA10069 76,  
 30 HEMBA1007301, HEMBB1000317, HEMBB1000530, HEMBB1001119, HEMBB1002092, HEMBB1002 193,  
 MAMMA1000672, MAMMA1000897, MAMMA1001030, MAMMA1001388, MAMMA1001771, MAMMA100 2485,  
 MAMMA1002636, MAMMA1002938, NT2RM1000648, NT2RM2000374, NT2RM2000407, NT2RM20 00422,  
 NT2RM2000623, NT2RM2001499, NT2RM2001588, NT2RM2001839, NT2RM2001930, NT2RM4 000156,  
 NT2RM4000233, NT2RM4001410, NT2RM4001987, NT2RM4002145, NT2RM4002189, NT2RM 4002194,  
 35 NT2RM4002558, NT2RM4002571, NT2RP1000856, NT2RP1001247, NT2RP2000056, NT2R P2001991,  
 NT2RP2002025, NT2RP2002325, NT2RP2002385, NT2RP2003706, NT2RP2005933, NT2 RP3001140,  
 NT2RP3003242, NT2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003914, NT 2RP3004253,  
 NT2RP4000212, NT2RP4000417, NT2RP4000925, NT2RP4001149, NT2RP4001150, N T2RP4001219,  
 NT2RP4001345, NT2RP4001372, NT2RP5003522, NT2RP5003524, OVARC1000543, OVARC1000682,  
 40 OVARC1000722, OVARC1001055, OVARC1001154, OVARC1001506, OVARC1001713 PLACE1002437,  
 PLACE1002722, PLACE1003258, PLACE1003493, PLACE1004197, PLACE100475 1, PLACE1005698,  
 PLACE1005804, PLACE1006157, PLACE1006754, PLACE1008643, PLACE10090 94, PLACE1009861,  
 PLACE1011371, PLACE2000034, PLACE2000062, PLACE2000399, PLACE2000458, PLACE3000009,  
 PLACE3000020, PLACE3000353, PLACE3000373, PLACE4000052 , PLACE4000230, PLACE4000522,  
 45 PLACE4000581, THYRO1000852, Y79AA1001874,

(3) The following 147 clones were predicted to encode a protein in the category of proteins associated with signal transduction (including the clones belonging to plural categories).

HEMBA1000030, HEMBA1000185, HEMBA1000303, HEMBA1000459, HEMBA1000491, HEMBA1000657,  
 50 HEMBA1000991, HEMBA1001174, HEMBA1001387, HEMBA1001822, HEMBA1001921, HEMBA100221 2,  
 HEMBA1002341, HEMBA1002417, HEMBA1002810, HEMBA1002896, HEMBA1003291, HEMBA10033 14,  
 HEMBA1003560, HEMBA1003615, HEMBA1003621, HEMBA1003805, HEMBA1004286, HEMBA1004 604,  
 HEMBA1006173, HEMBA1006540, HEMBA1006973, HEMBA1007174, HEMBB1000632, HEMBB100 0781,  
 HEMBB1001051, HEMBB1001177, HEMBB1001234, HEMBB1001294, HEMBB1001384, HEMBB10 02193,  
 55 HEMBB1002477, HEMBB1002635, MAMMA1001305, MAMMA1002699, MAMMA1002842, MAMMA1 003057,  
 MAMMA1003113, NT2RM1000118, NT2RM1000186, NT2RM1000772, NT2RM1000850, NT2RM 1001072,  
 NT2RM2000124, NT2RM2000612, NT2RM2001065, NT2RM2001221, NT2RM2001345, NT2R M2001652,  
 NT2RM2001983, NT2RM2002109, NT2RM2002128, NT2RM4000327, NT2RM4000354, NT2 RM4000798,

NT2RM4001203, NT2RM4001411, NT2RM4001412, NT2RM4001582, NT2RM4001629, NT 2RM4001758,  
 NT2RM4002226, NT2RP1000018, NT2RP1000112, NT2RP1000701, NT2RP1000825, N T2RP1001395,  
 NT2RP1001410, NT2RP1001457, NT2RP1001482, NT2RP2002058, NT2RP2002710, NT2RP2003702,  
 NT2RP2003912, NT2RP2004232, NT2RP2004768, NT2RP2005022, NT2RP2005620, NT2RP2005890,  
 5 NT2RP3000299, NT2RP3000403, NT2RP3000742, NT2RP3000845, NT2RP300176 4, NT2RP3002004,  
 NT2RP3002785, NT2RP3002909, NT2RP3003230, NT2RP3003411, NT2RP30034 64, NT2RP3003800,  
 NT2RP3004475, NT2RP3004534, NT2RP4000147, NT2RP4000376,  
 NT2RP4001122, NT2RP4001375, NT2RP4001644, NT2RP4001725, NT2RP4001760, NT2RP4001849,  
 NT2RP4001927, NT2RP4002408, NT2RP5003477, OVARC1000437, OVARC1000465, OVARC100064 9,  
 10 OVARC1000945, OVARC1001476, OVARC1001861, PLACE1001377, PLACE1001384, PLACE10013 87,  
 PLACE1002493, PLACE1002591, PLACE1002685, PLACE1003353, PLACE1004128, PLACE1004 918,  
 PLACE1005502, PLACE1005739, PLACE1005968, PLACE1006385, PLACE1007238, PLACE100 7375,  
 PLACE1007488, PLACE1008244, PLACE1008650, PLACE1009319, PLACE1009468, PLACE10 10083,  
 PLACE1010942, PLACE1011041, PLACE1011046, PLACE1011923, PLACE2000164, PLACE3 000145,  
 15 PLACE3000350, PLACE3000475, THYRO1001595, Y79AA1000059, Y79AA1000966,

(4) The following 230 clones were predicted to encode a protein in the category of proteins associated with tran-  
 scription (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000851, HEMBA1001137 ,  
 20 HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA100184 7,  
 HEMBA1002035, HEMBA1002092, HEMBA1002569, HEMBA1002609, HEMBA1003545, HEMBA10035 68,  
 HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004 353,  
 HEMBA1004479, HEMBA1004758, HEMBA1005359, HEMBA1005528, HEMBA1005548, HEMBA100 5931,  
 HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006559, HEMBB1000250, HEMBB10 00789,  
 25 HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001908, HEMBB1002134, HEMBB1 002217,  
 MAMMA1000155, MAMMA1000183, MAMMA1000388, MAMMA1001633, MAMMA1001820, MAMMA 1001837,  
 MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000666, NT2RM1000691, NT2R M1000894,  
 NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2 RM2001605,  
 NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2002580, NT2RM4000024, NT 2RM4000104,  
 30 NT2RM4000191, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, N T2RM4000996,  
 NT2RM4001140, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001746, NT2RM4001783,  
 NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RP1000111, NT2RP1000333,  
 NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP2000008, NT2RP200013 3, NT2RP2000297,  
 NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2002252, NT2RP20025 03, NT2RP2002591,  
 35 NT2RP2003125, NT2RP2003228, NT2RP2003293, NT2RP2003564,  
 NT2RP2003714, NT2RP2004013, NT2RP2004187, NT2RP2004961, NT2RP2005003, NT2RP2005037 ,  
 NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722, NT2RP2006238, NT2RP200646 4,  
 NT2RP3000050, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP30006 32,  
 NT2RP3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001 399,  
 40 NT2RP3001671, NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP300 1855,  
 NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP30 03251,  
 NT2RP3003327, NT2RP3004258, NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3 004617,  
 NT2RP4000078, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000787, NT2RP 4000865,  
 NT2RP4000997, NT2RP4001029, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2R P4001551,  
 45 NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVA RC1000479,  
 OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PL ACE1000066,  
 PLACE1000133, PLACE1000583, PLACE1000596, PLACE1000706, PLACE1001118, P LACE1001238,  
 PLACE1001304, PLACE1001602, PLACE1001632, PLACE1002450, PLACE1002532, PLACE1002834,  
 PLACE1003302, PLACE1003605, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510,  
 50 PLACE1004681, PLACE1006414, PLACE1006438, PLACE1006482, PLACE100723 9, PLACE1007346,  
 PLACE1007544, PLACE1007598, PLACE1007955, PLACE1007969, PLACE10086 27, PLACE1008941,  
 PLACE1009099, PLACE1009246, PLACE1009398, PLACE1010261,  
 PLACE1010491, PLACE1010702, PLACE1010771, PLACE1010870, PLACE1011576, PLACE2000072 ,  
 PLACE2000359, PLACE4000128, PLACE4000156, PLACE4000259, PLACE4000431, THYRO100012 1,  
 55 THYRO1000242, THYRO1000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA10000 37,  
 Y79AA1000627, Y79AA1000705, Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001 533,  
 Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1002093, Y79AA1002472, Y79AA100 2482,



(5) The following 436 clones were predicted to encode a protein in the category of proteins associated with diseases (including the clones belonging to plural categories).

5 HEMBA1000158, HEMBA1000216, HEMBA1000523, HEMBA1000561, HEMBA1000569, HEMBA1000673, HEMBA1000972, HEMBA1001017, HEMBA1001019, HEMBA1001059, HEMBA1001071, HEMBA100108 8,  
 HEMBA1001123, HEMBA1001407, HEMBA1001569, HEMBA1001570, HEMBA1001672, HEMBA10020 35,  
 HEMBA1002160, HEMBA1002162, HEMBA1002547, HEMBA1002939, HEMBA1003077, HEMBA1003 418,  
 HEMBA1003433, HEMBA1003538, HEMBA1003555, HEMBA1003568, HEMBA1003569, HEMBA100 3581,  
 HEMBA1003720, HEMBA1003760, HEMBA1004168, HEMBA1004248, HEMBA1004276, HEMBA10 04354,  
 HEMBA1004356, HEMBA1004479, HEMBA1004534, HEMBA1004669, HEMBA1004752, HEMBA1 004753,  
 10 HEMBA1004807, HEMBA1005293, HEMBA1005331, HEMBA1005359, HEMBA1005367, HEMBA 1005423,  
 HEMBA1005443, HEMBA1005475, HEMBA1005528, HEMBA1005576, HEMBA1005581, HEMBA 1005679,  
 HEMBA1005699, HEMBA1005732, HEMBA1005931, HEMBA1006173, HEMBA1006474, HEMBA 1006562,  
 HEMBA1006648, HEMBA1006652, HEMBA1006737, HEMBA1006807, HEMBA1006976, HEMBA 1007078,  
 HEMBA1007121, HEMBA1007243, HEMBA1007301, HEMBB1000264, HEMBB1000637, HEMBB1000684,  
 15 HEMBB1000693, HEMBB1000915, HEMBB1000927, HEMBB1001011, HEMBB1001051, HEMBB1001068,  
 HEMBB1001102, HEMBB1001119, HEMBB1001133, HEMBB1001177, HEMBB1001802, HEMBB1001908,  
 HEMBB1001922, HEMBB1001967, HEMBB1002050, HEMBB1002193, HEMBB100221 7, HEMBB1002358,  
 HEMBB1002635, HEMBB1002683, MAMMA1000009, MAMMA1000092, MAMMA10001 03, MAMMA1000173,  
 MAMMA1000731, MAMMA1000897, MAMMA1000956, MAMMA1001021,  
 20 MAMMA1001041, MAMMA1001105, MAMMA1001198, MAMMA1001305, MAMMA1001576, MAMMA1001633, MAMMA1002140,  
 MAMMA1002170, MAMMA1002198, MAMMA1002268, MAMMA1002352, MAMMA100239 2, MAMMA1002485,  
 MAMMA1002530, MAMMA1002573, MAMMA1002636, MAMMA1002858, MAMMA10028 69, MAMMA1002881,  
 MAMMA1002937, MAMMA1003047, MAMMA1003099, MAMMA1003146, MAMMA1003 166, NT2RM1000035,  
 NT2RM1000153, NT2RM1000257, NT2RM1000318, NT2RM1000377, NT2RM100 0394,  
 25 NT2RM1000555, NT2RM1000691, NT2RM1000725, NT2RM1000770, NT2RM1000826, NT2RM10 00850,  
 NT2RM1001059, NT2RM1001072, NT2RM1001082, NT2RM1001092, NT2RM2000363, NT2RM2 000374,  
 NT2RM2000594, NT2RM2000599, NT2RM2000714, NT2RM2000740, NT2RM2000821, NT2RM 2001035,  
 NT2RM2001499, NT2RM2001575, NT2RM2001605, NT2RM2001664, NT2RM2001670, NT2R M2001803,  
 NT2RM2001823, NT2RM2001839, NT2RM4000085, NT2RM4000139, NT2RM4000155, NT2 RM4000290,  
 30 NT2RM4000689, NT2RM4000895, NT2RM4001320, NT2RM4001566, NT2RM4001629, NT2RM4001741,  
 NT2RM4001819, NT2RM4001823, NT2RM4001865, NT2RM4001940, NT2RM4002093, NT2RM4002146,  
 NT2RM4002161, NT2RM4002189, NT2RM4002457, NT2RM4002558, NT2RM4002571, NT2RP1000086,  
 NT2RP1000376, NT2RP1000574, NT2RP1000581, NT2RP1000629, NT2RP1000721, NT2RP1000733,  
 NT2RP1000738, NT2RP1000825, NT2RP1000833, NT2RP1000860, NT2RP100096 6, NT2RP1001033,  
 35 NT2RP1001247, NT2RP2000126, NT2RP2000147, NT2RP2000233, NT2RP20002 97, NT2RP2000310,  
 NT2RP2000414, NT2RP2000448, NT2RP2000459, NT2RP2000603,  
 NT2RP2000812, NT2RP2001127, NT2RP2001327, NT2RP2001440, NT2RP2001520, NT2RP2001663,  
 NT2RP2001748, NT2RP2001876, NT2RP2001898, NT2RP2002025, NT2RP2002066, NT2RP200225 9,  
 NT2RP2002312, NT2RP2002503, NT2RP2002618, NT2RP2003228, NT2RP2003293, NT2RP20032 95,  
 40 NT2RP2003517, NT2RP2003564, NT2RP2003706, NT2RP2003737, NT2RP2003968, NT2RP2004 013,  
 NT2RP2004098, NT2RP2004187, NT2RP2004316, NT2RP2004523, NT2RP2004538, NT2RP200 4933,  
 NT2RP2005144, NT2RP2005288, NT2RP2005289, NT2RP2005325, NT2RP2005358, NT2RP20 05531,  
 NT2RP2005773, NT2RP2006219, NT2RP3000050, NT2RP3000080, NT2RP3000299, NT2RP3 000397,  
 NT2RP3000512, NT2RP3000527, NT2RP3001081, NT2RP3001216, NT2RP3001268, NT2RP 3001355,  
 45 NT2RP3001427, NT2RP3001428, NT2RP3001497, NT2RP3001554, NT2RP3001724, NT2R P3001764,  
 NT2RP3001799, NT2RP3001855, NT2RP3002045, NT2RP3002151, NT2RP3002351, NT2 RP3002352,  
 NT2RP3002663, NT2RP3002818, NT2RP3002876, NT2RP3002909, NT2RP3002972, NT2RP3003061,  
 NT2RP3003157, NT2RP3003242, NT2RP3003282, NT2RP3003672, NT2RP3004078, NT2RP3004209,  
 NT2RP3004399, NT2RP3004424, NT2RP3004475, NT2RP3004480, NT2RP3004490, NT2RP3004527,  
 50 NT2RP3004578, NT2RP4000049, NT2RP4000109, NT2RP4000185, NT2RP4000312, NT2RP4000367,  
 NT2RP4000398, NT2RP4000457, NT2RP4000855, NT2RP4000879, NT2RP400091 5, NT2RP4000928,  
 NT2RP4001095, NT2RP4001150, NT2RP4001213, NT2RP4001483, NT2RP40014 98, NT2RP4001753,  
 NT2RP4001838, OVARC1000014, OVARC1000114, OVARC1000139,  
 OVARC1000241, OVARC1000440, OVARC1000543, OVARC1000722, OVARC1000771, OVARC1000834, ,  
 55 OVARC1000850, OVARC1001113, OVARC1001244, OVARC1001296, OVARC1001357, OVARC100137 2,  
 OVARC1001417, OVARC1001496, OVARC1001506, OVARC1001577, OVARC1001668, OVARC10017 13,  
 OVARC1001809, OVARC1001880, OVARC1001901, OVARC1001949, OVARC1002050, PLACE1000 133,  
 PLACE1000142, PLACE1000184, PLACE1000383, PLACE1000406, PLACE1000420, PLACE100 0583,

PLACE1000588, PLACE1000706, PLACE1001384, PLACE1001387, PLACE1001517, PLACE10 01602,  
 PLACE1001634, PLACE1001771, PLACE1002046, PLACE1002437, PLACE1002474, PLACE1 002665,  
 PLACE1002834, PLACE1003302, PLACE1003493, PLACE1003704, PLACE1003888, PLACE 1003903,  
 PLACE1003968, PLACE1004197, PLACE1004358, PLACE1004471, PLACE1004681, PLAC E1004751,  
 5 PLACE1004773, PLACE1005101, PLACE1006040, PLACE1006119, PLACE1006170, PLA CE1006187,  
 PLACE1006288, PLACE1006414, PLACE1006438, PLACE1006962, PLACE1007239, PL ACE1007257,  
 PLACE1007488, PLACE1007511, PLACE1007737, PLACE1008000, PLACE1008402, P LACE1008643,  
 PLACE1008696, PLACE1008941, PLACE1009027, PLACE1009200, PLACE1009230, PLACE1009298,  
 PLACE1009319, PLACE1009444, PLACE1009524, PLACE1010083, PLACE1010089, PLACE1010599,  
 10 PLACE1010833, PLACE1010856, PLACE1011054, PLACE1011057, PLACE101116 5, PLACE1011229,  
 PLACE1011263, PLACE1011371, PLACE2000072, PLACE2000399, PLACE20004 38, PLACE2000458,  
 PLACE3000004, PLACE3000242, PLACE3000352, PLACE3000353,  
 PLACE3000455, PLACE3000475, PLACE4000009, PLACE4000014, PLACE4000052, PLACE4000320 ,  
 PLACE4000581, SKNMC1000050, THYRO1000026, THYRO1000173, THYRO1000186, THYRO100032 0,  
 15 THYRO1000327, THYRO1000387, THYRO1000471, THYRO1000934, THYRO1001458, THYRO10015 95,  
 THYRO1001605, THYRO1001617, THYRO1001671, Y79AA1000037, Y79AA1000469, Y79AA1000 539,  
 Y79AA1000560, Y79AA1000734, Y79AA1000985, Y79AA1001105, Y79AA1001391, Y79AA100 1394,  
 Y79AA1001548, Y79AA1001613, Y79AA1001874, Y79AA1002258, Y79AA1002416, Y79AA10 02482,

(6) The following 301 clones were predicted to encode a protein in the category of enzyme or proteins associated with metabolism (including the clones belonging to plural categories).

HEMBA1000012, HEMBA1000459, HEMBA1000852, HEMBA1001059, HEMBA1001257, HEMBA1001620 ,  
 HEMBA1001714, HEMBA1001744, HEMBA1001896, HEMBA1002003, HEMBA1002212, HEMBA100225 7,  
 25 HEMBA1002513, HEMBA1002973, HEMBA1003046, HEMBA1003136, HEMBA1003179, HEMBA10032 86,  
 HEMBA1003291, HEMBA1003538, HEMBA1003680, HEMBA1004227, HEMBA1004408, HEMBA1004 734,  
 HEMBA1004795, HEMBA1005513, HEMBA1005737, HEMBA1005815, HEMBA1006278, HEMBA100 6347,  
 HEMBA1006521, HEMBA1006648, HEMBA1006877, HEMBA1006941, HEMBA1006976, HEMBA10 07121,  
 HEMBA1007243, HEMBA1007300, HEMBB1000781, HEMBB1000915, HEMBB1001288, HEMBB1 001429,  
 30 HEMBB1001443, HEMBB1001915, HEMBB1002042, HEMBB1002342, HEMBB1002358, HEMBB 1002635,  
 HEMBB1002683, MAMMA1000020, MAMMA1000085, MAMMA1000672, MAMMA1000841, MAMM A1001008,  
 MAMMA1001139, MAMMA1001476, MAMMA1001501, MAMMA1002268, MAMMA1002530, MAM MA1002619,  
 MAMMA1002671, MAMMA1002938, NT2RM1000132, NT2RM1000153, NT2RM1000256, NT 2RM1000280,  
 NT2RM1000377, NT2RM1000648, NT2RM1000850, NT2RM1000867, NT2RM1000894, N T2RM1001072,  
 35 NT2RM2000013, NT2RM2000124, NT2RM2000191, NT2RM2000368, NT2RM2000371, NT2RM2000577,  
 NT2RM2000594, NT2RM2000599, NT2RM2000951, NT2RM2001238, NT2RM2001664 , NT2RM2001700,  
 NT2RM2001730, NT2RM2001785, NT2RM2001803, NT2RM2002030, NT2RM400002 4, NT2RM4000155,  
 NT2RM4000344, NT2RM4000496, NT2RM4000616, NT2RM4000712, NT2RM40008 95, NT2RM4001313,  
 NT2RM4001316, NT2RM4001340, NT2RM4001444, NT2RM4001758,  
 40 NT2RM4001819, NT2RM4001930, NT2RM4002062, NT2RM4002063, NT2RM4002409, NT2RM4002558 ,  
 NT2RM4002571, NT2RM4002623, NT2RP1000018, NT2RP1000112, NT2RP1000376, NT2RP100060 9,  
 NT2RP1000833, NT2RP1000834, NT2RP1001079, NT2RP1001253, NT2RP1001361, NT2RP10015 43,  
 NT2RP2000056, NT2RP2000114, NT2RP2000183, NT2RP2000329, NT2RP2000422, NT2RP2000 710,  
 NT2RP2000764, NT2RP2000932, NT2RP2001070, NT2RP2001663, NT2RP2001839, NT2RP200 1898,  
 45 NT2RP2002256, NT2RP2002312, NT2RP2002442, NT2RP2002595, NT2RP2002618, NT2RP20 02993,  
 NT2RP2003230, NT2RP2003286, NT2RP2003506, NT2RP2003643, NT2RP2003706, NT2RP2 003737,  
 NT2RP2003781, NT2RP2003912, NT2RP2004232, NT2RP2004239, NT2RP2004768, NT2RP 2004791,  
 NT2RP2004799, NT2RP2005038, NT2RP2005276, NT2RP2005344, NT2RP2005457, NT2R P2005498,  
 NT2RP2005531, NT2RP2005557, NT2RP2005690, NT2RP2005773, NT2RP2005775, NT2 RP2005942,  
 50 NT2RP2006571, NT2RP3000046, NT2RP3000085, NT2RP3000359, NT2RP3000418, NT 2RP3000742,  
 NT2RP3000845, NT2RP3000875, NT2RP3001274, NT2RP3001407, NT2RP3001495, N T2RP3002351,  
 NT2RP3002402, NT2RP3002969, NT2RP3003301, NT2RP3003346, NT2RP3003500, NT2RP3003800,  
 NT2RP3003825, NT2RP3003831, NT2RP3003914, NT2RP3004155, NT2RP3004209 NT2RP3004669,  
 NT2RP3004670, NT2RP4000259, NT2RP4000417, NT2RP4000457, NT2RP400072 4, NT2RP4000855,  
 55 NT2RP4000928, NT2RP4000997, NT2RP4001041, NT2RP4001079, NT2RP40010 95, NT2RP4001219,  
 NT2RP4001345, NT2RP4001375, NT2RP4001483, NT2RP4001592,  
 NT2RP4001644, NT2RP4001893, NT2RP4001946, NT2RP4002408, NT2RP5003500, NT2RP5003522 ,  
 OVARC1000060, OVARC1000139, OVARC1000309, OVARC1000543, OVARC1000682, OVARC100072 2,  
 OVARC1000885, OVARC1001261, OVARC1001610, OVARC1001713, OVARC1001762, OVARC10018 09,

OVARC1001942, PLACE1000007, PLACE1000142, PLACE1000420, PLACE1000547, PLACE1000 653,  
 PLACE1001062, PLACE1001603, PLACE1001692, PLACE1001817, PLACE1001989, PLACE100 2991,  
 PLACE1003100, PLACE1003709, PLACE1003885, PLACE1003888, PLACE1003903, PLACE10 03915,  
 PLACE1003968, PLACE1004428, PLACE1004437, PLACE1004751, PLACE1005305, PLACE1 005477,  
 5 PLACE1005656, PLACE1005763, PLACE1005804, PLACE1006011, PLACE1016469, PLACE 1006731,  
 PLACE1007729, PLACE1007958, PLACE1008275, PLACE1008356, PLACE1008696, PLAC E1009444,  
 PLACE1009861, PLACE1009997, PLACE1010089, PLACE1010096, PLACE1010106, PLA CE1010152,  
 PLACE1010481, PLACE1011046, PLACE1011203, PLACE1011219, PLACE1011229, PL ACE1011332,  
 PLACE1011923, PLACE2000021, PLACE2000140, PLACE2000404, PLACE2000411, P LACE3000020,  
 10 PLACE3000148, PLACE3000156, PLACE3000350, PLACE3000353, PLACE4000259, PLACE4000431,  
 PLACE4000558, PLACE4000590, SKNMC1000050, THYRO1000017, THYRO1000197, THYRO1000320,  
 THYRO1000358, THYRO1000471, THYRO1000926, THYRO1000934, THYRO100095 1, THYRO1001406,  
 THYRO1001617, THYRO1001671, Y79AA1001048, Y79AA1001233, Y79AA10015 81, Y79AA1001679,  
 Y79AA1001827, Y79AA1002027, Y79AA1002209, Y79AA1002361, Y79AA1002 416,

(7) The following 74 clones were predicted to encode a protein in the category of proteins associated with cell division or cell proliferation (including the clones belonging to plural categories).

HEMBA1001019, HEMBA1001595, HEMBA1002229, HEMBA1002363, HEMBA1003136, HEMBA1003836 ,  
 HEMBA1004131, HEMBA1005241, HEMBB1000399, HEMBB1001175, HEMBB1001242, MAMMA100182 0,  
 20 MAMMA1003011, NT2RM1000394, NT2RM2001256, NT2RM4000215, NT2RM4001611, NT2RM40017 14,  
 NT2RP1000733, NT2RP1001177, NT2RP2000077, NT2RP2000346, NT2RP2001397, NT2RP2003 912,  
 NT2RP2005520, NT2RP2005675, NT2RP2005767, NT2RP2005857, NT2RP2006464, NT2RP300 0031,  
 NT2RP3001155, NT2RP3001730, NT2RP3002151, NT2RP3002273, NT2RP3002399, NT2RP30 04507,  
 NT2RP3004578, NT2RP3004594, NT2RP4000210, NT2RP4000498, NT2RP4001207, NT2RP4 001414,  
 25 NT2RP4001551, OVARC1000006, OVARC1000087, OVARC1000113, OVARC1000846, OVARC 1000876,  
 OVARC1001068, OVARC1001107, OVARC1001113, OVARC1002112, PLACE1000547, PLAC E1001611,  
 PLACE1001691, PLACE1002775, PLACE1002811, PLACE1003709, PLACE1004316, PLA CE1004674,  
 PLACE1004814, PLACE1005287, PLACE1006187, PLACE1006368, PLACE1008808, PL ACE1008947,  
 PLACE1009060, PLACE1010720, PLACE1010761, PLACE1010833, PLACE1011056, P LACE3000244,  
 30 Y79AA1000214, Y79AA1001236,

(8) The following 92 clones were predicted to encode a protein in the category of proteins associated with cytoskel-  
 eton (including the clones belonging to plural categories).

HEMBA1000020, HEMBA1000588, HEMBA1001804, HEMBA1002102, HEMBA1002161, HEMBA1002939 ,  
 35 HEMBA1003235, HEMBA1003581, HEMBA1004534, HEMBA1005009, HEMBA1005595, HEMBA100627 2,  
 HEMBA1006737, HEMBA1007018, HEMBB1000404, HEMBB1001282, MAMMA1000173, MAMMA10004 29,  
 MAMMA1001041, MAMMA1001576, MAMMA1001735, MAMMA1002622, MAMMA1002637, MAMMA1003 099,  
 MAMMA1003127, NT2RM1000898, NT2RM1001003, NT2RM1001139, NT2RM2000691, NT2RM400 0030,  
 40 NT2RM4000167, NT2RM4000689, NT2RM4001741, NT2RM4001776, NT2RM4002109, NT2RP10 00348,  
 NT2RP1000460, NT2RP1000478, NT2RP1001033, NT2RP2000812, NT2RP2001634, NT2RP2 001900,  
 NT2RP2002727, NT2RP2003307, NT2RP2003604, NT2RP2004538, NT2RP2005531, NT2RP 3000868,  
 NT2RP3001216, NT2RP3001272, NT2RP3002688, NT2RP3003061, NT2RP3003138, NT2R P3003230,  
 NT2RP3003282, NT2RP3004454, NT2RP3004569, NT2RP4001126, NT2RP4001927, OVA RC1000437,  
 45 OVARC1000520, OVARC1000679, OVARC1001731, OVARC1002050, PLACE1002571, PL ACE1002591,  
 PLACE1002655, PLACE1003669, PLACE1004777, PLACE1005287, PLACE1006368, P LACE1007105,  
 PLACE1010310, PLACE1010743, PLACE1010960, PLACE1011263, PLACE2000039, PLACE2000216,  
 PLACE2000274, PLACE3000145, PLACE3000322, PLACE4000009, PLACE4000612, THYRO1000072,  
 THYRO1000666, THYRO1001121, THYRO1001458, Y79AA1000368, Y79AA100083 3, Y79AA1000962,  
 50 Y79AA1000985, Y79AA1002208,

(9) The following 280 clones were predicted to encode a protein in the category of proteins associated with RNA  
 synthesis (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000591, HEMBA1000851 ,  
 55 HEMBA1001137, HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809, HEMBA100181 9,  
 HEMBA1001847, HEMBA1002035, HEMBA1002092, HEMBA1002569, HEMBA1002609, HEMBA10034 18,  
 HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004 097,  
 HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA1004669, HEMBA1004758, HEMBA100 5359,  
 HEMBA1005528, HEMBA1005548, HEMBA1005931, HEMBA1006253, HEMBA1006278, HEMBA10 06359,

HEMBA1006559, HEMBA1006639, HEMBB1000250, HEMBB1000789, HEMBB1001011, HEMBB1 001314, HEMBB1001482, HEMBB1001908, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAMMA 1000183, MAMMA1000388, MAMMA1001059, MAMMA1001633, MAMMA1001820, MAMMA1001837, MAMMA 1002650, MAMMA1002937, NT2RM1000055, NT2RM1000187, NT2RM1000666, NT2RM1000691, NT2 RM1000852, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT 2RM2001424, NT2RM2001575, NT2RM2001605, NT2RM2001670, NT2RM2001771, NT2RM2001797, N T2RM2001989, NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000104, NT2RM4000191, NT2RM4000421, NT2RM4000471, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM400174 6, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RM40020 93, NT2RM4002479, NT2RP1000111, NT2RP1000272, NT2RP1000333, NT2RP1000470, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1001080, NT2RP2000008, NT2RP2000133 , NT2RP2000161, NT2RP2000297, NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP200144 9, NT2RP2002099, NT2RP2002252, NT2RP2002503, NT2RP2002591, NT2RP2002928, NT2RP20031 25, NT2RP2003228, NT2RP2003293, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2RP2004 187, NT2RP2004568, NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005126, NT2RP200 5168, NT2RP2005239, NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722, NT2RP20 05763, NT2RP2005942, NT2RP2006238, NT2RP2006464, NT2RP3000050, NT2RP3000361, NT2RP3 000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP3000632, NT2RP3000917, NT2RP 3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001399, NT2R P3001671, NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP3001855, NT2 RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP3003251, NT 2RP3003327, NT2RP3004013, NT2RP3004258, NT2RP3004504, NT2RP3004566, NT2RP3004572, N T2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP4000111, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000518, NT2RP4000614, NT2RP4000787, NT2RP4000865, NT2RP4000997 , NT2RP4001029, NT2RP4001080, NT2RP4001148, NT2RP4001213, NT2RP4001433, NT2RP400152 9, NT2RP4001551, NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP40020 78, OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PLACE1000066, PLACE1000133, PLACE1000583, PLACE1000596, PLACE1000706 , PLACE1001118, PLACE1001238, PLACE1001304, PLACE1001602, PLACE1001632, PLACE100245 0, PLACE1002532, PLACE1002834, PLACE1003190, PLACE1003302, PLACE1003605, PLACE10037 04, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004 681, PLACE1004902, PLACE1005646, PLACE1005876, PLACE1006196, PLACE1006414, PLACE100 6438, PLACE1006482, PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE10 07955, PLACE1007969, PLACE1008627, PLACE1008941, PLACE1009099, PLACE1009246, PLACE1 009398, PLACE1010053, PLACE1010194, PLACE1010261, PLACE1010491, PLACE1010580, PLACE 1010702, PLACE1010771, PLACE1010870, PLACE1011576, PLACE2000072, PLACE2000359, PLAC E4000128, PLACE4000156, PLACE4000259, PLACE4000431, THYRO1000121, THYRO1000242, THY RO1000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000037, Y79AA1000349, Y7 9AA1000539, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1001105, Y79AA1001299, Y 79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(10) The following 352 clones were predicted to encode a protein in the category of nuclear protein (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000827 , HEMBA1000851, HEMBA1001088, HEMBA1001137, HEMBA1001476, HEMBA1001510, HEMBA100157 9, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1002035, HEMBA10020 92, HEMBA1002363, HEMBA1002495, HEMBA1002569, HEMBA1002609, HEMBA1002999, HEMBA1003 148, HEMBA1003418, HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA100 3783, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA10 04669, HEMBA1004758, HEMBA1005359, HEMBA1005475, HEMBA1005528, HEMBA1005548, HEMBA1 005931, HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006474, HEMBA1006559, HEMBA 1006914, HEMBB1000250, HEMBB1000399, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMB B1001482, HEMBB1001908, HEMBB1001915, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAM MA1000183, MAMMA1000388, MAMMA1000731, MAMMA1001633, MAMMA1001820, MAMMA1001837, MA MMA1002650, MAMMA1002869, MAMMA1002937, MAMMA1003011, NT2RM1000055, NT2RM1000187, N T2RM1000257, NT2RM1000394, NT2RM1000666, NT2RM1000691, NT2RM1000852, NT2RM1000894, NT2RM1001092,

NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2RM2001605, NT2RM2001635,  
 NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2001823, NT2RM200193 6, NT2RM2001989,  
 NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000085, NT2RM40001 04, NT2RM4000191,  
 NT2RM4000215, NT2RM4000290, NT2RM4000421, NT2RM4000496,  
 5 NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140, NT2RM4001200 ,  
 NT2RM4001217, NT2RM4001382, NT2RM4001483, NT2RM4001592, NT2RM4001605, NT2RM400161 1,  
 NT2RM4001746, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM40019 79,  
 NT2RM4002093, NT2RM4002146, NT2RM4002527, NT2RP1000035, NT2RP1000111, NT2RP1000 333,  
 NT2RP1000493, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1000966, NT2RP100 1177,  
 10 NT2RP2000008, NT2RP2000126, NT2RP2000133, NT2RP2000161, NT2RP2000297, NT2RP20 00414,  
 NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2001420, NT2RP2001449, NT2RP2 001536,  
 NT2RP2001762, NT2RP2002185, NT2RP2002252, NT2RP2002259, NT2RP2002503, NT2RP 2002504,  
 NT2RP2002591, NT2RP2002993, NT2RP2003125, NT2RP2003228, NT2RP2003277, NT2R P2003286,  
 NT2RP2003293, NT2RP2003308, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2 RP2004187,  
 15 NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005287, NT2RP2005496, NT 2RP2005520,  
 NT2RP2005539, NT2RP2005722, NT2RP2005767, NT2RP2005857, NT2RP2005942, N T2RP2006238,  
 NT2RP2006464, NT2RP3000031, NT2RP3000050, NT2RP3000361, NT2RP3000397, NT2RP3000512,  
 NT2RP3000527, NT2RP1000590, NT2RP3000603, NT2RP3000632, NT2RP3000917 , NT2RP3001057,  
 NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001274, NT2RP300139 8, NT2RP3001399,  
 20 NT2RP3001427, NT2RP3001428, NT2RP3001587, NT2RP3001671, NT2RP30016 72, NT2RP3001688,  
 NT2RP3001712, NT2RP3001724, NT2RP3001792, NT2RP3001855,  
 NT2RP3002056, NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193 ,  
 NT2RP3003212, NT2RP3003251, NT2RP3003327, NT2RP3004206, NT2RP3004209, NT2RP300425 8,  
 NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP40001 11,  
 25 NT2RP4000150, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000457, NT2RP4000 518,  
 NT2RP4000787, NT2RP4000865, NT2RP4000997, NT2RP4001029, NT2RP4001080, NT2RP400 1148,  
 NT2RP4001207, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2RP4001551, NT2RP40 01638,  
 NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVARC1000006, OVARC1 000087,  
 OVARC1000139, OVARC1000326, OVARC1000440, OVARC1000479, OVARC1000846, OVARC 1000883,  
 30 OVARC1001180, OVARC1001244, OVARC1001381, OVARC1001555, OVARC1001577, OVAR C1001702,  
 OVARC1001949, OVARC1002112, PLACE1000066, PLACE1000133, PLACE1000406, PLA CE1000583,  
 PLACE1000596, PLACE1000706, PLACE1001118, PLACE1001238, PLACE1001304, PL ACE1001602,  
 PLACE1001611, PLACE1001632, PLACE1002450, PLACE1002532, PLACE1002834, P LACE1003100,  
 PLACE1003190, PLACE1003302, PLACE1003605, PLACE1003704, PLACE1003738, PLACE1003885,  
 35 PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004681, PLACE1004902, PLACE1005287,  
 PLACE1005876, PLACE1006011, PLACE1006119, PLACE1006414, PLACE100643 8, PLACE1006482,  
 PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE10079 55, PLACE1007969,  
 PLACE1008044, PLACE1008177, PLACE1008603, PLACE1008627,  
 PLACE1008941, PLACE1008947, PLACE1009099, PLACE1009113, PLACE1009246, PLACE1009398 ,  
 40 PLACE1010152, PLACE1010194, PLACE1010261, PLACE1010491, PLACE1010702, PLACE101072 0,  
 PLACE1010771, PLACE1010870, PLACE1011056, PLACE1011229, PLACE1011576, PLACE10116 64,  
 PLACE2000072, PLACE2000359, PLACE2000411, PLACE4000014, PLACE4000128, PLACE4000 156,  
 PLACE4000259, PLACE4000261, PLACE4000431, THYRO1000121, THYRO1000242, THYRO100 0501,  
 THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000037, Y79AA1000214, Y79AA10 00539,  
 45 Y79AA1000589, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1000784, Y79AA1 001105,  
 Y79AA1001299, Y79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848, Y79AA 1001866,  
 Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(11) The following 111 clones were predicted to encode a protein in the category of proteins associated with protein  
 synthesis or transport (including the clones belonging to plural categories).

50 HEMBA1000012, HEMBA1000542, HEMBA1001913, HEMBA1003773, HEMBA1004202, HEMBA1004356 ,  
 HEMBA1004847, HEMBA1005047, HEMBA1005202, HEMBA1005963, HEMBA1006310, HEMBA100665 2,  
 HEMBA1006914, HEMBB1000217, HEMBB1000725, HEMBB1001346, HEMBB1001831, MAMMA10000 85,  
 MAMMA1000734, MAMMA1002170, MAMMA1002236, MAMMA1002598, NT2RM1000661, NT2RM2000 504,  
 55 NT2RM2000577, NT2RM2001131, NT2RM4000155, NT2RM4001444, NT2RM4002062, NT2RM400 2205,  
 NT2RM4002623, NT2RP1000326, NT2RP1000947, NT2RP1001569, NT2RP2000710, NT2RP20 00880,  
 NT2RP2001290, NT2RP2001511, NT2RP2001660, NT2RP2002185, NT2RP2002606, NT2RP2 002959,  
 NT2RP2002980, NT2RP2003158, NT2RP2003760, NT2RP2004194, NT2RP2004791, NT2RP 2005012,

NT2RP2005116, NT2RP2005204, NT2RP2006565, NT2RP2006598, NT2RP3000047, NT2R P3000366,  
 NT2RP3000759, NT2RP3000968, NT2RP3001587, NT2RP3002529, NT2RP3003385, NT2 RP3003589,  
 NT2RP3003876, NT2RP3004618, NT2RP4000370, NT2RP4000524, NT2RP4000528, NT 2RP4001041,  
 NT2RP4001574, NT2RP4001592, NT2RP4002047, OVARC1000004, OVARC1000771, O VARC1000862,  
 5 OVARC1001180, OVARC1001342, OVARC1001766, OVARC1002138, PLACE1000061, PLACE1000492,  
 PLACE1000863, PLACE1001748, PLACE1002090, PLACE1003394, PLACE1003915, PLACE1004149,  
 PLACE1004743, PLACE1005557, PLACE1005813, PLACE1006488, PLACE100653 1, PLACE1006615,  
 PLACE1007706, PLACE1008273, PLACE1008790, PLACE1008813, PLACE10097 21, PLACE1009763,  
 PLACE1009845, PLACE1010074, PLACE1011109, PLACE1011477,  
 10 PLACE2000404, PLACE3000059, PLACE3000121, PLACE4000558, PLACE4000654, SKNMC1000011,  
 THYRO1000288, THYRO1000974, Y79AA1000346, Y79AA1000968, Y79AA1002209,

(12) The following 23 clones were predicted to encode a protein in the category of proteins associated with cellular defense (including the clones belonging to plural categories).

15 HEMBA1000005, HEMBA1000531, HEMBB1000217, HEMBB1000399, MAMMA1000734, NT2RP1000493,  
 NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2001536, NT2RP2005204, NT2RP300059 0,  
 NT2RP3001426, NT2RP3002056, NT2RP3004262, NT2RP4001638, OVARC1001900, PLACE10056 11,  
 PLACE1006958, PLACE1008275, PLACE1009113, PLACE4000014, Y79AA1002139,

20 (13) The following 23 clones were predicted to encode a protein in the category of proteins associated with devel-  
 opment or growth (including the clones belonging to plural categories).

HEMBB1001802, HEMBB1002442, NT2RM2002142, NT2RM4001047, NT2RP2003308, NT2RP2004816,  
 NT2RP3000994, NT2RP3001340, NT2RP3004206, NT2RP3004472, NT2RP4000246, NT2RP400100 6,  
 25 OVARC1000304, OVARC1000746, OVARC1000996, PLACE1006037, PLACE1009622, PLACE10116 64,  
 Y79AA1001692,

Table 9  
 Selected clones having the maximal ATGpr1 score of 0.3 or higher (3690 clones).

| clone<br>name | name of<br>sequence | maximal<br>ATGpr1<br>score |
|---------------|---------------------|----------------------------|
| HEMBA1000005  | F-HEMBA1000005      | 0.84                       |
| HEMBA1000012  | F-HEMBA1000012      | 0.56                       |
| HEMBA1000020  | F-HEMBA1000020      | 0.94                       |
| HEMBA1000030  | F-HEMBA1000030      | 0.44                       |
| HEMBA1000046  | F-HEMBA1000046      | 0.50                       |
| HEMBA1000050  | F-HEMBA1000050      | 0.94                       |
| HEMBA1000076  | F-HEMBA1000076      | 0.48                       |
| HEMBA1000129  | F-HEMBA1000129      | 0.74                       |
| HEMBA1000141  | F-HEMBA1000141      | 0.55                       |
| HEMBA1000150  | F-HEMBA1000150      | 0.72                       |
| HEMBA1000156  | F-HEMBA1000156      | 0.94                       |
| HEMBA1000158  | F-HEMBA1000158      | 0.62                       |
| HEMBA1000168  | F-HEMBA1000168      | 0.94                       |
| HEMBA1000185  | F-HEMBA1000185      | 0.86                       |
| HEMBA1000193  | F-HEMBA1000193      | 0.94                       |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBA1000201 | F-HEMBA1000201 | 0.83 |
|    | HEMBA1000216 | F-HEMBA1000216 | 0.32 |
|    | HEMBA1000227 | F-HEMBA1000227 | 0.72 |
| 5  | HEMBA1000231 | F-HEMBA1000231 | 0.34 |
|    | HEMBA1000244 | F-HEMBA1000244 | 0.51 |
|    | HEMBA1000288 | F-HEMBA1000288 | 0.36 |
|    | HEMBA1000290 | F-HEMBA1000290 | 0.45 |
| 10 | HEMBA1000302 | F-HEMBA1000302 | 0.71 |
|    | HEMBA1000303 | F-HEMBA1000303 | 0.42 |
|    | HEMBA1000304 | F-HEMBA1000304 | 0.45 |
|    | HEMBA1000307 | F-HEMBA1000307 | 0.48 |
| 15 | HEMBA1000327 | F-HEMBA1000327 | 0.94 |
|    | HEMBA1000356 | F-HEMBA1000356 | 0.90 |
|    | HEMBA1000369 | F-HEMBA1000369 | 0.94 |
|    | HEMBA1000387 | F-HEMBA1000387 | 0.66 |
| 20 | HEMBA1000392 | F-HEMBA1000392 | 0.60 |
|    | HEMBA1000396 | F-HEMBA1000396 | 0.81 |
|    | HEMBA1000456 | F-HEMBA1000456 | 0.90 |
|    | HEMBA1000460 | F-HEMBA1000460 | 0.31 |
| 25 | HEMBA1000488 | F-HEMBA1000488 | 0.47 |
|    | HEMBA1000490 | F-HEMBA1000490 | 0.89 |
|    | HEMBA1000491 | F-HEMBA1000491 | 0.94 |
|    | HEMBA1000501 | F-HEMBA1000501 | 0.67 |
| 30 | HEMBA1000505 | F-HEMBA1000505 | 0.65 |
|    | HEMBA1000508 | F-HEMBA1000508 | 0.39 |
|    | HEMBA1000520 | F-HEMBA1000520 | 0.94 |
|    | HEMBA1000523 | F-HEMBA1000523 | 0.86 |
| 35 | HEMBA1000531 | F-HEMBA1000531 | 0.49 |
|    | HEMBA1000534 | F-HEMBA1000534 | 0.52 |
|    | HEMBA1000542 | F-HEMBA1000542 | 0.81 |
|    | HEMBA1000555 | F-HEMBA1000555 | 0.67 |
| 40 | HEMBA1000561 | F-HEMBA1000561 | 0.34 |
|    | HEMBA1000568 | F-HEMBA1000568 | 0.66 |
|    | HEMBA1000588 | F-HEMBA1000588 | 0.79 |
|    | HEMBA1000591 | F-HEMBA1000591 | 0.92 |
|    | HEMBA1000592 | F-HEMBA1000592 | 0.73 |
| 45 | HEMBA1000594 | F-HEMBA1000594 | 0.89 |
|    | HEMBA1000608 | F-HEMBA1000608 | 0.94 |
|    | HEMBA1000636 | F-HEMBA1000636 | 0.94 |
|    | HEMBA1000637 | F-HEMBA1000637 | 0.92 |
| 50 | HEMBA1000657 | F-HEMBA1000657 | 0.85 |
|    | HEMBA1000682 | F-HEMBA1000682 | 0.94 |
|    | HEMBA1000686 | F-HEMBA1000686 | 0.90 |
|    | HEMBA1000719 | F-HEMBA1000719 | 0.94 |
|    | HEMBA1000727 | F-HEMBA1000727 | 0.40 |
| 55 | HEMBA1000752 | F-HEMBA1000752 | 0.31 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBA1000817 | F-HEMBA1000817 | 0.94 |
|    | HEMBA1000851 | F-HEMBA1000851 | 0.63 |
| 5  | HEMBA1000867 | F-HEMBA1000867 | 0.68 |
|    | HEMBA1000869 | F-HEMBA1000869 | 0.82 |
|    | HEMBA1000872 | F-HEMBA1000872 | 0.54 |
|    | HEMBA1000910 | F-HEMBA1000910 | 0.91 |
|    | HEMBA1000918 | F-HEMBA1000918 | 0.38 |
| 10 | HEMBA1000919 | F-HEMBA1000919 | 0.83 |
|    | HEMBA1000942 | F-HEMBA1000942 | 0.31 |
|    | HEMBA1000946 | F-HEMBA1000946 | 0.75 |
|    | HEMBA1000968 | F-HEMBA1000968 | 0.39 |
| 15 | HEMBA1000971 | F-HEMBA1000971 | 0.74 |
|    | HEMBA1000975 | F-HEMBA1000975 | 0.46 |
|    | HEMBA1000986 | F-HEMBA1000986 | 0.89 |
|    | HEMBA1001008 | F-HEMBA1001008 | 0.47 |
| 20 | HEMBA1001009 | F-HEMBA1001009 | 0.86 |
|    | HEMBA1001022 | F-HEMBA1001022 | 0.57 |
|    | HEMBA1001043 | F-HEMBA1001043 | 0.79 |
|    | HEMBA1001052 | F-HEMBA1001052 | 0.83 |
| 25 | HEMBA1001059 | F-HEMBA1001059 | 0.78 |
|    | HEMBA1001080 | F-HEMBA1001080 | 0.77 |
|    | HEMBA1001085 | F-HEMBA1001085 | 0.92 |
|    | HEMBA1001088 | F-HEMBA1001088 | 0.94 |
| 30 | HEMBA1001109 | F-HEMBA1001109 | 0.50 |
|    | HEMBA1001122 | F-HEMBA1001122 | 0.74 |
|    | HEMBA1001133 | F-HEMBA1001133 | 0.45 |
|    | HEMBA1001137 | F-HEMBA1001137 | 0.37 |
| 35 | HEMBA1001140 | F-HEMBA1001140 | 0.43 |
|    | HEMBA1001174 | F-HEMBA1001174 | 0.44 |
|    | HEMBA1001197 | F-HEMBA1001197 | 0.65 |
|    | HEMBA1001213 | F-HEMBA1001213 | 0.61 |
|    | HEMBA1001235 | F-HEMBA1001235 | 0.94 |
| 40 | HEMBA1001247 | F-HEMBA1001247 | 0.31 |
|    | HEMBA1001257 | F-HEMBA1001257 | 0.92 |
|    | HEMBA1001281 | F-HEMBA1001281 | 0.94 |
|    | HEMBA1001286 | F-HEMBA1001286 | 0.49 |
| 45 | HEMBA1001289 | F-HEMBA1001289 | 0.94 |
|    | HEMBA1001302 | F-HEMBA1001302 | 0.62 |
|    | HEMBA1001303 | F-HEMBA1001303 | 0.79 |
|    | HEMBA1001310 | F-HEMBA1001310 | 0.66 |
| 50 | HEMBA1001326 | F-HEMBA1001326 | 0.59 |
|    | HEMBA1001351 | F-HEMBA1001351 | 0.65 |
|    | HEMBA1001361 | F-HEMBA1001361 | 0.94 |
|    | HEMBA1001377 | F-HEMBA1001377 | 0.87 |
| 55 | HEMBA1001387 | F-HEMBA1001387 | 0.94 |
|    | HEMBA1001388 | F-HEMBA1001388 | 0.57 |



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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBA1001398 | F-HEMBA1001398 | 0.74 |
|    | HEMBA1001405 | F-HEMBA1001405 | 0.61 |
| 5  | HEMBA1001407 | F-HEMBA1001407 | 0.43 |
|    | HEMBA1001413 | F-HEMBA1001413 | 0.40 |
|    | HEMBA1001415 | F-HEMBA1001415 | 0.94 |
|    | HEMBA1001446 | F-HEMBA1001446 | 0.90 |
| 10 | HEMBA1001450 | F-HEMBA1001450 | 0.40 |
|    | HEMBA1001455 | F-HEMBA1001455 | 0.73 |
|    | HEMBA1001476 | F-HEMBA1001476 | 0.65 |
|    | HEMBA1001497 | F-HEMBA1001497 | 0.48 |
| 15 | HEMBA1001510 | F-HEMBA1001510 | 0.36 |
|    | HEMBA1001526 | F-HEMBA1001526 | 0.66 |
|    | HEMBA1001533 | F-HEMBA1001533 | 0.46 |
|    | HEMBA1001569 | F-HEMBA1001569 | 0.73 |
| 20 | HEMBA1001570 | F-HEMBA1001570 | 0.53 |
|    | HEMBA1001579 | F-HEMBA1001579 | 0.82 |
|    | HEMBA1001581 | F-HEMBA1001581 | 0.80 |
|    | HEMBA1001595 | F-HEMBA1001595 | 0.72 |
|    | HEMBA1001620 | F-HEMBA1001620 | 0.94 |
| 25 | HEMBA1001635 | F-HEMBA1001635 | 0.87 |
|    | HEMBA1001640 | F-HEMBA1001640 | 0.82 |
|    | HEMBA1001647 | F-HEMBA1001647 | 0.91 |
|    | HEMBA1001655 | F-HEMBA1001655 | 0.39 |
| 30 | HEMBA1001661 | F-HEMBA1001661 | 0.86 |
|    | HEMBA1001672 | F-HEMBA1001672 | 0.94 |
|    | HEMBA1001702 | F-HEMBA1001702 | 0.72 |
|    | HEMBA1001711 | F-HEMBA1001711 | 0.74 |
| 35 | HEMBA1001714 | F-HEMBA1001714 | 0.89 |
|    | HEMBA1001723 | F-HEMBA1001723 | 0.94 |
|    | HEMBA1001731 | F-HEMBA1001731 | 0.37 |
|    | HEMBA1001744 | F-HEMBA1001744 | 0.31 |
| 40 | HEMBA1001746 | F-HEMBA1001746 | 0.39 |
|    | HEMBA1001781 | F-HEMBA1001781 | 0.67 |
|    | HEMBA1001800 | F-HEMBA1001800 | 0.69 |
|    | HEMBA1001804 | F-HEMBA1001804 | 0.85 |
|    | HEMBA1001809 | F-HEMBA1001809 | 0.78 |
| 45 | HEMBA1001815 | F-HEMBA1001815 | 0.49 |
|    | HEMBA1001819 | F-HEMBA1001819 | 0.90 |
|    | HEMBA1001822 | F-HEMBA1001822 | 0.80 |
|    | HEMBA1001824 | F-HEMBA1001824 | 0.68 |
| 50 | HEMBA1001847 | F-HEMBA1001847 | 0.46 |
|    | HEMBA1001864 | F-HEMBA1001864 | 0.34 |
|    | HEMBA1001866 | F-HEMBA1001866 | 0.53 |
|    | HEMBA1001869 | F-HEMBA1001869 | 0.69 |
| 55 | HEMBA1001896 | F-HEMBA1001896 | 0.48 |
|    | HEMBA1001910 | F-HEMBA1001910 | 0.84 |

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|----|--------------|----------------|------|
|    | HEMBA1001912 | F-HEMBA1001912 | 0.48 |
|    | HEMBA1001913 | F-HEMBA1001913 | 0.94 |
| 5  | HEMBA1001915 | F-HEMBA1001915 | 0.41 |
|    | HEMBA1001921 | F-HEMBA1001921 | 0.94 |
|    | HEMBA1001939 | F-HEMBA1001939 | 0.87 |
|    | HEMBA1001950 | F-HEMBA1001950 | 0.36 |
| 10 | HEMBA1001967 | F-HEMBA1001967 | 0.94 |
|    | HEMBA1001987 | F-HEMBA1001987 | 0.41 |
|    | HEMBA1002018 | F-HEMBA1002018 | 0.41 |
|    | HEMBA1002035 | F-HEMBA1002035 | 0.36 |
|    | HEMBA1002049 | F-HEMBA1002049 | 0.39 |
| 15 | HEMBA1002084 | F-HEMBA1002084 | 0.45 |
|    | HEMBA1002092 | F-HEMBA1002092 | 0.94 |
|    | HEMBA1002102 | F-HEMBA1002102 | 0.94 |
|    | HEMBA1002119 | F-HEMBA1002119 | 0.60 |
| 20 | HEMBA1002125 | F-HEMBA1002125 | 0.88 |
|    | HEMBA1002150 | F-HEMBA1002150 | 0.31 |
|    | HEMBA1002151 | F-HEMBA1002151 | 0.82 |
|    | HEMBA1002161 | F-HEMBA1002161 | 0.94 |
| 25 | HEMBA1002177 | F-HEMBA1002177 | 0.38 |
|    | HEMBA1002189 | F-HEMBA1002189 | 0.43 |
|    | HEMBA1002191 | F-HEMBA1002191 | 0.94 |
|    | HEMBA1002199 | F-HEMBA1002199 | 0.85 |
| 30 | HEMBA1002212 | F-HEMBA1002212 | 0.39 |
|    | HEMBA1002215 | F-HEMBA1002215 | 0.94 |
|    | HEMBA1002229 | F-HEMBA1002229 | 0.83 |
|    | HEMBA1002237 | F-HEMBA1002237 | 0.86 |
| 35 | HEMBA1002241 | F-HEMBA1002241 | 0.66 |
|    | HEMBA1002265 | F-HEMBA1002265 | 0.38 |
|    | HEMBA1002267 | F-HEMBA1002267 | 0.33 |
|    | HEMBA1002341 | F-HEMBA1002341 | 0.53 |
|    | HEMBA1002363 | F-HEMBA1002363 | 0.88 |
| 40 | HEMBA1002417 | F-HEMBA1002417 | 0.83 |
|    | HEMBA1002419 | F-HEMBA1002419 | 0.92 |
|    | HEMBA1002430 | F-HEMBA1002430 | 0.45 |
|    | HEMBA1002439 | F-HEMBA1002439 | 0.83 |
| 45 | HEMBA1002458 | F-HEMBA1002458 | 0.47 |
|    | HEMBA1002460 | F-HEMBA1002460 | 0.48 |
|    | HEMBA1002462 | F-HEMBA1002462 | 0.55 |
|    | HEMBA1002469 | F-HEMBA1002469 | 0.79 |
| 50 | HEMBA1002475 | F-HEMBA1002475 | 0.88 |
|    | HEMBA1002477 | F-HEMBA1002477 | 0.45 |
|    | HEMBA1002495 | F-HEMBA1002495 | 0.78 |
|    | HEMBA1002503 | F-HEMBA1002503 | 0.94 |
| 55 | HEMBA1002508 | F-HEMBA1002508 | 0.33 |
|    | HEMBA1002513 | F-HEMBA1002513 | 0.41 |

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|----|--------------|----------------|------|
|    | HEMBA1002515 | F-HEMBA1002515 | 0.94 |
|    | HEMBA1002542 | F-HEMBA1002542 | 0.46 |
| 5  | HEMBA1002547 | F-HEMBA1002547 | 0.45 |
|    | HEMBA1002569 | F-HEMBA1002569 | 0.86 |
|    | HEMBA1002583 | F-HEMBA1002583 | 0.86 |
|    | HEMBA1002609 | F-HEMBA1002609 | 0.75 |
| 10 | HEMBA1002624 | F-HEMBA1002624 | 0.59 |
|    | HEMBA1002688 | F-HEMBA1002688 | 0.88 |
|    | HEMBA1002696 | F-HEMBA1002696 | 0.82 |
|    | HEMBA1002703 | F-HEMBA1002703 | 0.94 |
|    | HEMBA1002746 | F-HEMBA1002746 | 0.33 |
| 15 | HEMBA1002750 | F-HEMBA1002750 | 0.53 |
|    | HEMBA1002768 | F-HEMBA1002768 | 0.94 |
|    | HEMBA1002770 | F-HEMBA1002770 | 0.61 |
|    | HEMBA1002777 | F-HEMBA1002777 | 0.90 |
| 20 | HEMBA1002779 | F-HEMBA1002779 | 0.92 |
|    | HEMBA1002794 | F-HEMBA1002794 | 0.86 |
|    | HEMBA1002810 | F-HEMBA1002810 | 0.87 |
|    | HEMBA1002816 | F-HEMBA1002816 | 0.91 |
| 25 | HEMBA1002818 | F-HEMBA1002818 | 0.94 |
|    | HEMBA1002850 | F-HEMBA1002850 | 0.57 |
|    | HEMBA1002863 | F-HEMBA1002863 | 0.48 |
|    | HEMBA1002876 | F-HEMBA1002876 | 0.86 |
| 30 | HEMBA1002935 | F-HEMBA1002935 | 0.91 |
|    | HEMBA1002937 | F-HEMBA1002937 | 0.61 |
|    | HEMBA1002939 | F-HEMBA1002939 | 0.32 |
|    | HEMBA1002951 | F-HEMBA1002951 | 0.83 |
| 35 | HEMBA1002954 | F-HEMBA1002954 | 0.67 |
|    | HEMBA1002970 | F-HEMBA1002970 | 0.33 |
|    | HEMBA1002971 | F-HEMBA1002971 | 0.57 |
|    | HEMBA1002973 | F-HEMBA1002973 | 0.33 |
|    | HEMBA1002997 | F-HEMBA1002997 | 0.46 |
| 40 | HEMBA1002999 | F-HEMBA1002999 | 0.49 |
|    | HEMBA1003021 | F-HEMBA1003021 | 0.74 |
|    | HEMBA1003033 | F-HEMBA1003033 | 0.94 |
|    | HEMBA1003035 | F-HEMBA1003035 | 0.61 |
| 45 | HEMBA1003041 | F-HEMBA1003041 | 0.40 |
|    | HEMBA1003046 | F-HEMBA1003046 | 0.94 |
|    | HEMBA1003067 | F-HEMBA1003067 | 0.34 |
|    | HEMBA1003077 | F-HEMBA1003077 | 0.83 |
| 50 | HEMBA1003078 | F-HEMBA1003078 | 0.89 |
|    | HEMBA1003079 | F-HEMBA1003079 | 0.49 |
|    | HEMBA1003096 | F-HEMBA1003096 | 0.34 |
|    | HEMBA1003117 | F-HEMBA1003117 | 0.94 |
| 55 | HEMBA1003129 | F-HEMBA1003129 | 0.81 |
|    | HEMBA1003136 | F-HEMBA1003136 | 0.77 |

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|----|--------------|----------------|-------|
|    | HEMBA1003148 | F-HEMBA1003148 | 0. 91 |
|    | HEMBA1003175 | F-HEMBA1003175 | 0. 41 |
| 5  | HEMBA1003179 | F-HEMBA1003179 | 0. 42 |
|    | HEMBA1003199 | F-HEMBA1003199 | 0. 84 |
|    | HEMBA1003222 | F-HEMBA1003222 | 0. 47 |
|    | HEMBA1003235 | F-HEMBA1003235 | 0. 94 |
| 10 | HEMBA1003250 | F-HEMBA1003250 | 0. 39 |
|    | HEMBA1003257 | F-HEMBA1003257 | 0. 88 |
|    | HEMBA1003281 | F-HEMBA1003281 | 0. 67 |
|    | HEMBA1003286 | F-HEMBA1003286 | 0. 57 |
| 15 | HEMBA1003291 | F-HEMBA1003291 | 0. 89 |
|    | HEMBA1003322 | F-HEMBA1003322 | 0. 60 |
|    | HEMBA1003327 | F-HEMBA1003327 | 0. 88 |
|    | HEMBA1003369 | F-HEMBA1003369 | 0. 89 |
|    | HEMBA1003370 | F-HEMBA1003370 | 0. 75 |
| 20 | HEMBA1003380 | F-HEMBA1003380 | 0. 68 |
|    | HEMBA1003395 | F-HEMBA1003395 | 0. 88 |
|    | HEMBA1003402 | F-HEMBA1003402 | 0. 45 |
|    | HEMBA1003403 | F-HEMBA1003403 | 0. 44 |
| 25 | HEMBA1003408 | F-HEMBA1003408 | 0. 34 |
|    | HEMBA1003417 | F-HEMBA1003417 | 0. 78 |
|    | HEMBA1003418 | F-HEMBA1003418 | 0. 94 |
|    | HEMBA1003433 | F-HEMBA1003433 | 0. 70 |
| 30 | HEMBA1003447 | F-HEMBA1003447 | 0. 49 |
|    | HEMBA1003461 | F-HEMBA1003461 | 0. 85 |
|    | HEMBA1003463 | F-HEMBA1003463 | 0. 59 |
|    | HEMBA1003480 | F-HEMBA1003480 | 0. 94 |
| 35 | HEMBA1003528 | F-HEMBA1003528 | 0. 90 |
|    | HEMBA1003538 | F-HEMBA1003538 | 0. 47 |
|    | HEMBA1003545 | F-HEMBA1003545 | 0. 74 |
|    | HEMBA1003555 | F-HEMBA1003555 | 0. 94 |
| 40 | HEMBA1003556 | F-HEMBA1003556 | 0. 44 |
|    | HEMBA1003560 | F-HEMBA1003560 | 0. 40 |
|    | HEMBA1003568 | F-HEMBA1003568 | 0. 94 |
|    | HEMBA1003569 | F-HEMBA1003569 | 0. 82 |
| 45 | HEMBA1003581 | F-HEMBA1003581 | 0. 83 |
|    | HEMBA1003591 | F-HEMBA1003591 | 0. 68 |
|    | HEMBA1003615 | F-HEMBA1003615 | 0. 94 |
|    | HEMBA1003617 | F-HEMBA1003617 | 0. 88 |
| 50 | HEMBA1003621 | F-HEMBA1003621 | 0. 47 |
|    | HEMBA1003645 | F-HEMBA1003645 | 0. 75 |
|    | HEMBA1003646 | F-HEMBA1003646 | 0. 51 |
|    | HEMBA1003662 | F-HEMBA1003662 | 0. 61 |
|    | HEMBA1003667 | F-HEMBA1003667 | 0. 54 |
| 55 | HEMBA1003679 | F-HEMBA1003679 | 0. 72 |
|    | HEMBA1003680 | F-HEMBA1003680 | 0. 52 |

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|----|--------------|----------------|------|
|    | HEMBA1003684 | F-HEMBA1003684 | 0.94 |
|    | HEMBA1003690 | F-HEMBA1003690 | 0.93 |
|    | HEMBA1003692 | F-HEMBA1003692 | 0.46 |
| 5  | HEMBA1003711 | F-HEMBA1003711 | 0.94 |
|    | HEMBA1003720 | F-HEMBA1003720 | 0.94 |
|    | HEMBA1003729 | F-HEMBA1003729 | 0.73 |
|    | HEMBA1003742 | F-HEMBA1003742 | 0.94 |
| 10 | HEMBA1003760 | F-HEMBA1003760 | 0.75 |
|    | HEMBA1003783 | F-HEMBA1003783 | 0.31 |
|    | HEMBA1003799 | F-HEMBA1003799 | 0.70 |
|    | HEMBA1003803 | F-HEMBA1003803 | 0.87 |
| 15 | HEMBA1003804 | F-HEMBA1003804 | 0.94 |
|    | HEMBA1003805 | F-HEMBA1003805 | 0.94 |
|    | HEMBA1003807 | F-HEMBA1003807 | 0.91 |
|    | HEMBA1003827 | F-HEMBA1003827 | 0.62 |
| 20 | HEMBA1003836 | F-HEMBA1003836 | 0.69 |
|    | HEMBA1003838 | F-HEMBA1003838 | 0.80 |
|    | HEMBA1003864 | F-HEMBA1003864 | 0.94 |
|    | HEMBA1003866 | F-HEMBA1003866 | 0.32 |
| 25 | HEMBA1003879 | F-HEMBA1003879 | 0.82 |
|    | HEMBA1003880 | F-HEMBA1003880 | 0.59 |
|    | HEMBA1003893 | F-HEMBA1003893 | 0.47 |
|    | HEMBA1003953 | F-HEMBA1003953 | 0.77 |
| 30 | HEMBA1003959 | F-HEMBA1003959 | 0.32 |
|    | HEMBA1003978 | F-HEMBA1003978 | 0.37 |
|    | HEMBA1003985 | F-HEMBA1003985 | 0.31 |
|    | HEMBA1003989 | F-HEMBA1003989 | 0.75 |
| 35 | HEMBA1004011 | F-HEMBA1004011 | 0.34 |
|    | HEMBA1004048 | F-HEMBA1004048 | 0.32 |
|    | HEMBA1004055 | F-HEMBA1004055 | 0.74 |
|    | HEMBA1004056 | F-HEMBA1004056 | 0.49 |
|    | HEMBA1004074 | F-HEMBA1004074 | 0.39 |
| 40 | HEMBA1004086 | F-HEMBA1004086 | 0.45 |
|    | HEMBA1004097 | F-HEMBA1004097 | 0.82 |
|    | HEMBA1004111 | F-HEMBA1004111 | 0.94 |
|    | HEMBA1004131 | F-HEMBA1004131 | 0.84 |
| 45 | HEMBA1004133 | F-HEMBA1004133 | 0.40 |
|    | HEMBA1004143 | F-HEMBA1004143 | 0.33 |
|    | HEMBA1004146 | F-HEMBA1004146 | 0.31 |
|    | HEMBA1004150 | F-HEMBA1004150 | 0.70 |
| 50 | HEMBA1004168 | F-HEMBA1004168 | 0.34 |
|    | HEMBA1004199 | F-HEMBA1004199 | 0.34 |
|    | HEMBA1004200 | F-HEMBA1004200 | 0.40 |
|    | HEMBA1004202 | F-HEMBA1004202 | 0.88 |
| 55 | HEMBA1004203 | F-HEMBA1004203 | 0.94 |
|    | HEMBA1004207 | F-HEMBA1004207 | 0.53 |

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|    | HEMBA1004227 | F-HEMBA1004227 | 0.94 |
|    | HEMBA1004238 | F-HEMBA1004238 | 0.44 |
| 5  | HEMBA1004246 | F-HEMBA1004246 | 0.71 |
|    | HEMBA1004248 | F-HEMBA1004248 | 0.40 |
|    | HEMBA1004264 | F-HEMBA1004264 | 0.94 |
|    | HEMBA1004274 | F-HEMBA1004274 | 0.88 |
| 10 | HEMBA1004275 | F-HEMBA1004275 | 0.85 |
|    | HEMBA1004276 | F-HEMBA1004276 | 0.32 |
|    | HEMBA1004286 | F-HEMBA1004286 | 0.37 |
|    | HEMBA1004289 | F-HEMBA1004289 | 0.76 |
| 15 | HEMBA1004321 | F-HEMBA1004321 | 0.82 |
|    | HEMBA1004327 | F-HEMBA1004327 | 0.40 |
|    | HEMBA1004330 | F-HEMBA1004330 | 0.84 |
|    | HEMBA1004335 | F-HEMBA1004335 | 0.79 |
| 20 | HEMBA1004341 | F-HEMBA1004341 | 0.38 |
|    | HEMBA1004353 | F-HEMBA1004353 | 0.79 |
|    | HEMBA1004372 | F-HEMBA1004372 | 0.94 |
|    | HEMBA1004389 | F-HEMBA1004389 | 0.32 |
| 25 | HEMBA1004408 | F-HEMBA1004408 | 0.70 |
|    | HEMBA1004479 | F-HEMBA1004479 | 0.55 |
|    | HEMBA1004499 | F-HEMBA1004499 | 0.62 |
|    | HEMBA1004502 | F-HEMBA1004502 | 0.31 |
| 30 | HEMBA1004507 | F-HEMBA1004507 | 0.71 |
|    | HEMBA1004509 | F-HEMBA1004509 | 0.68 |
|    | HEMBA1004534 | F-HEMBA1004534 | 0.56 |
|    | HEMBA1004542 | F-HEMBA1004542 | 0.36 |
| 35 | HEMBA1004554 | F-HEMBA1004554 | 0.90 |
|    | HEMBA1004560 | F-HEMBA1004560 | 0.57 |
|    | HEMBA1004573 | F-HEMBA1004573 | 0.93 |
|    | HEMBA1004596 | F-HEMBA1004596 | 0.45 |
| 40 | HEMBA1004604 | F-HEMBA1004604 | 0.91 |
|    | HEMBA1004610 | F-HEMBA1004610 | 0.59 |
|    | HEMBA1004632 | F-HEMBA1004632 | 0.59 |
|    | HEMBA1004637 | F-HEMBA1004637 | 0.38 |
|    | HEMBA1004638 | F-HEMBA1004638 | 0.40 |
| 45 | HEMBA1004669 | F-HEMBA1004669 | 0.94 |
|    | HEMBA1004693 | F-HEMBA1004693 | 0.52 |
|    | HEMBA1004697 | F-HEMBA1004697 | 0.94 |
|    | HEMBA1004705 | F-HEMBA1004705 | 0.94 |
| 50 | HEMBA1004709 | F-HEMBA1004709 | 0.77 |
|    | HEMBA1004711 | F-HEMBA1004711 | 0.73 |
|    | HEMBA1004725 | F-HEMBA1004725 | 0.94 |
|    | HEMBA1004734 | F-HEMBA1004734 | 0.94 |
|    | HEMBA1004736 | F-HEMBA1004736 | 0.94 |
| 55 | HEMBA1004751 | F-HEMBA1004751 | 0.64 |
|    | HEMBA1004752 | F-HEMBA1004752 | 0.87 |

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|    | HEMBA1004753 | F-HEMBA1004753 | 0. 54 |
|    | HEMBA1004756 | F-HEMBA1004756 | 0. 54 |
| 5  | HEMBA1004758 | F-HEMBA1004758 | 0. 69 |
|    | HEMBA1004763 | F-HEMBA1004763 | 0. 94 |
|    | HEMBA1004768 | F-HEMBA1004768 | 0. 66 |
|    | HEMBA1004771 | F-HEMBA1004771 | 0. 72 |
| 10 | HEMBA1004776 | F-HEMBA1004776 | 0. 49 |
|    | HEMBA1004795 | F-HEMBA1004795 | 0. 46 |
|    | HEMBA1004806 | F-HEMBA1004806 | 0. 32 |
|    | HEMBA1004847 | F-HEMBA1004847 | 0. 79 |
| 15 | HEMBA1004850 | F-HEMBA1004850 | 0. 94 |
|    | HEMBA1004863 | F-HEMBA1004863 | 0. 32 |
|    | HEMBA1004864 | F-HEMBA1004864 | 0. 94 |
|    | HEMBA1004889 | F-HEMBA1004889 | 0. 94 |
| 20 | HEMBA1004923 | F-HEMBA1004923 | 0. 70 |
|    | HEMBA1004929 | F-HEMBA1004929 | 0. 31 |
|    | HEMBA1004930 | F-HEMBA1004930 | 0. 90 |
|    | HEMBA1004933 | F-HEMBA1004933 | 0. 84 |
|    | HEMBA1004934 | F-HEMBA1004934 | 0. 34 |
| 25 | HEMBA1004944 | F-HEMBA1004944 | 0. 40 |
|    | HEMBA1004954 | F-HEMBA1004954 | 0. 62 |
|    | HEMBA1004972 | F-HEMBA1004972 | 0. 90 |
|    | HEMBA1004973 | F-HEMBA1004973 | 0. 94 |
| 30 | HEMBA1004977 | F-HEMBA1004977 | 0. 77 |
|    | HEMBA1004980 | F-HEMBA1004980 | 0. 33 |
|    | HEMBA1005009 | F-HEMBA1005009 | 0. 94 |
|    | HEMBA1005019 | F-HEMBA1005019 | 0. 32 |
| 35 | HEMBA1005029 | F-HEMBA1005029 | 0. 84 |
|    | HEMBA1005035 | F-HEMBA1005035 | 0. 91 |
|    | HEMBA1005047 | F-HEMBA1005047 | 0. 94 |
|    | HEMBA1005050 | F-HEMBA1005050 | 0. 88 |
| 40 | HEMBA1005066 | F-HEMBA1005066 | 0. 79 |
|    | HEMBA1005075 | F-HEMBA1005075 | 0. 31 |
|    | HEMBA1005079 | F-HEMBA1005079 | 0. 35 |
|    | HEMBA1005083 | F-HEMBA1005083 | 0. 43 |
| 45 | HEMBA1005101 | F-HEMBA1005101 | 0. 94 |
|    | HEMBA1005113 | F-HEMBA1005113 | 0. 38 |
|    | HEMBA1005133 | F-HEMBA1005133 | 0. 34 |
|    | HEMBA1005149 | F-HEMBA1005149 | 0. 36 |
|    | HEMBA1005185 | F-HEMBA1005185 | 0. 64 |
| 50 | HEMBA1005201 | F-HEMBA1005201 | 0. 83 |
|    | HEMBA1005202 | F-HEMBA1005202 | 0. 94 |
|    | HEMBA1005206 | F-HEMBA1005206 | 0. 94 |
|    | HEMBA1005219 | F-HEMBA1005219 | 0. 57 |
| 55 | HEMBA1005223 | F-HEMBA1005223 | 0. 33 |
|    | HEMBA1005244 | F-HEMBA1005244 | 0. 35 |

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|    | HEMBA1005252 | F-HEMBA1005252 | 0. 80 |
|    | HEMBA1005296 | F-HEMBA1005296 | 0. 94 |
| 5  | HEMBA1005314 | F-HEMBA1005314 | 0. 94 |
|    | HEMBA1005331 | F-HEMBA1005331 | 0. 69 |
|    | HEMBA1005338 | F-HEMBA1005338 | 0. 94 |
|    | HEMBA1005367 | F-HEMBA1005367 | 0. 50 |
| 10 | HEMBA1005382 | F-HEMBA1005382 | 0. 91 |
|    | HEMBA1005394 | F-HEMBA1005394 | 0. 45 |
|    | HEMBA1005403 | F-HEMBA1005403 | 0. 94 |
|    | HEMBA1005411 | F-HEMBA1005411 | 0. 33 |
|    | HEMBA1005423 | F-HEMBA1005423 | 0. 64 |
| 15 | HEMBA1005468 | F-HEMBA1005468 | 0. 33 |
|    | HEMBA1005469 | F-HEMBA1005469 | 0. 59 |
|    | HEMBA1005472 | F-HEMBA1005472 | 0. 32 |
|    | HEMBA1005474 | F-HEMBA1005474 | 0. 51 |
| 20 | HEMBA1005475 | F-HEMBA1005475 | 0. 36 |
|    | HEMBA1005513 | F-HEMBA1005513 | 0. 94 |
|    | HEMBA1005517 | F-HEMBA1005517 | 0. 94 |
|    | HEMBA1005518 | F-HEMBA1005518 | 0. 39 |
| 25 | HEMBA1005526 | F-HEMBA1005526 | 0. 62 |
|    | HEMBA1005528 | F-HEMBA1005528 | 0. 81 |
|    | HEMBA1005530 | F-HEMBA1005530 | 0. 62 |
|    | HEMBA1005548 | F-HEMBA1005548 | 0. 94 |
| 30 | HEMBA1005558 | F-HEMBA1005558 | 0. 94 |
|    | HEMBA1005576 | F-HEMBA1005576 | 0. 49 |
|    | HEMBA1005581 | F-HEMBA1005581 | 0. 53 |
|    | HEMBA1005582 | F-HEMBA1005582 | 0. 34 |
| 35 | HEMBA1005583 | F-HEMBA1005583 | 0. 94 |
|    | HEMBA1005595 | F-HEMBA1005595 | 0. 93 |
|    | HEMBA1005609 | F-HEMBA1005609 | 0. 34 |
|    | HEMBA1005621 | F-HEMBA1005621 | 0. 94 |
| 40 | HEMBA1005666 | F-HEMBA1005666 | 0. 57 |
|    | HEMBA1005680 | F-HEMBA1005680 | 0. 38 |
|    | HEMBA1005685 | F-HEMBA1005685 | 0. 32 |
|    | HEMBA1005732 | F-HEMBA1005732 | 0. 33 |
|    | HEMBA1005737 | F-HEMBA1005737 | 0. 92 |
| 45 | HEMBA1005746 | F-HEMBA1005746 | 0. 37 |
|    | HEMBA1005755 | F-HEMBA1005755 | 0. 94 |
|    | HEMBA1005813 | F-HEMBA1005813 | 0. 33 |
|    | HEMBA1005815 | F-HEMBA1005815 | 0. 82 |
| 50 | HEMBA1005822 | F-HEMBA1005822 | 0. 83 |
|    | HEMBA1005834 | F-HEMBA1005834 | 0. 70 |
|    | HEMBA1005852 | F-HEMBA1005852 | 0. 76 |
|    | HEMBA1005884 | F-HEMBA1005884 | 0. 79 |
| 55 | HEMBA1005891 | F-HEMBA1005891 | 0. 94 |
|    | HEMBA1005963 | F-HEMBA1005963 | 0. 40 |



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|    |              |                |       |
|----|--------------|----------------|-------|
|    | HEMBA1005990 | F-HEMBA1005990 | 0. 82 |
|    | HEMBA1005991 | F-HEMBA1005991 | 0. 43 |
| 5  | HEMBA1006031 | F-HEMBA1006031 | 0. 55 |
|    | HEMBA1006035 | F-HEMBA1006035 | 0. 43 |
|    | HEMBA1006081 | F-HEMBA1006081 | 0. 36 |
|    | HEMBA1006091 | F-HEMBA1006091 | 0. 81 |
| 10 | HEMBA1006100 | F-HEMBA1006100 | 0. 31 |
|    | HEMBA1006108 | F-HEMBA1006108 | 0. 80 |
|    | HEMBA1006121 | F-HEMBA1006121 | 0. 45 |
|    | HEMBA1006130 | F-HEMBA1006130 | 0. 46 |
|    | HEMBA1006138 | F-HEMBA1006138 | 0. 48 |
| 15 | HEMBA1006155 | F-HEMBA1006155 | 0. 72 |
|    | HEMBA1006173 | F-HEMBA1006173 | 0. 42 |
|    | HEMBA1006182 | F-HEMBA1006182 | 0. 73 |
|    | HEMBA1006198 | F-HEMBA1006198 | 0. 94 |
| 20 | HEMBA1006235 | F-HEMBA1006235 | 0. 58 |
|    | HEMBA1006248 | F-HEMBA1006248 | 0. 57 |
|    | HEMBA1006252 | F-HEMBA1006252 | 0. 31 |
|    | HEMBA1006272 | F-HEMBA1006272 | 0. 54 |
| 25 | HEMBA1006278 | F-HEMBA1006278 | 0. 92 |
|    | HEMBA1006283 | F-HEMBA1006283 | 0. 90 |
|    | HEMBA1006284 | F-HEMBA1006284 | 0. 93 |
|    | HEMBA1006291 | F-HEMBA1006291 | 0. 38 |
| 30 | HEMBA1006293 | F-HEMBA1006293 | 0. 89 |
|    | HEMBA1006309 | F-HEMBA1006309 | 0. 94 |
|    | HEMBA1006310 | F-HEMBA1006310 | 0. 67 |
|    | HEMBA1006344 | F-HEMBA1006344 | 0. 94 |
| 35 | HEMBA1006347 | F-HEMBA1006347 | 0. 94 |
|    | HEMBA1006349 | F-HEMBA1006349 | 0. 56 |
|    | HEMBA1006377 | F-HEMBA1006377 | 0. 94 |
|    | HEMBA1006381 | F-HEMBA1006381 | 0. 33 |
|    | HEMBA1006398 | F-HEMBA1006398 | 0. 71 |
| 40 | HEMBA1006424 | F-HEMBA1006424 | 0. 40 |
|    | HEMBA1006445 | F-HEMBA1006445 | 0. 86 |
|    | HEMBA1006467 | F-HEMBA1006467 | 0. 55 |
|    | HEMBA1006474 | F-HEMBA1006474 | 0. 66 |
| 45 | HEMBA1006483 | F-HEMBA1006483 | 0. 71 |
|    | HEMBA1006485 | F-HEMBA1006485 | 0. 87 |
|    | HEMBA1006492 | F-HEMBA1006492 | 0. 73 |
|    | HEMBA1006494 | F-HEMBA1006494 | 0. 90 |
| 50 | HEMBA1006497 | F-HEMBA1006497 | 0. 77 |
|    | HEMBA1006502 | F-HEMBA1006502 | 0. 80 |
|    | HEMBA1006507 | F-HEMBA1006507 | 0. 56 |
|    | HEMBA1006521 | F-HEMBA1006521 | 0. 91 |
| 55 | HEMBA1006530 | F-HEMBA1006530 | 0. 37 |
|    | HEMBA1006535 | F-HEMBA1006535 | 0. 56 |

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|----|--------------|----------------|------|
|    | HEMBA1006569 | F-HEMBA1006559 | 0.39 |
|    | HEMBA1006566 | F-HEMBA1006566 | 0.41 |
|    | HEMBA1006579 | F-HEMBA1006579 | 0.83 |
| 5  | HEMBA1006583 | F-HEMBA1006583 | 0.31 |
|    | HEMBA1006612 | F-HEMBA1006612 | 0.55 |
|    | HEMBA1006624 | F-HEMBA1006624 | 0.94 |
|    | HEMBA1006631 | F-HEMBA1006631 | 0.74 |
| 10 | HEMBA1006643 | F-HEMBA1006643 | 0.38 |
|    | HEMBA1006652 | F-HEMBA1006652 | 0.93 |
|    | HEMBA1006659 | F-HEMBA1006659 | 0.63 |
|    | HEMBA1006674 | F-HEMBA1006674 | 0.54 |
| 15 | HEMBA1006682 | F-HEMBA1006682 | 0.34 |
|    | HEMBA1006708 | F-HEMBA1006708 | 0.40 |
|    | HEMBA1006709 | F-HEMBA1006709 | 0.41 |
|    | HEMBA1006717 | F-HEMBA1006717 | 0.43 |
| 20 | HEMBA1006737 | F-HEMBA1006737 | 0.72 |
|    | HEMBA1006754 | F-HEMBA1006754 | 0.45 |
|    | HEMBA1006758 | F-HEMBA1006758 | 0.60 |
|    | HEMBA1006767 | F-HEMBA1006767 | 0.61 |
| 25 | HEMBA1006789 | F-HEMBA1006789 | 0.34 |
|    | HEMBA1006795 | F-HEMBA1006795 | 0.48 |
|    | HEMBA1006796 | F-HEMBA1006796 | 0.41 |
|    | HEMBA1006807 | F-HEMBA1006807 | 0.34 |
| 30 | HEMBA1006832 | F-HEMBA1006832 | 0.59 |
|    | HEMBA1006877 | F-HEMBA1006877 | 0.90 |
|    | HEMBA1006885 | F-HEMBA1006885 | 0.80 |
|    | HEMBA1006900 | F-HEMBA1006900 | 0.34 |
| 35 | HEMBA1006914 | F-HEMBA1006914 | 0.78 |
|    | HEMBA1006926 | F-HEMBA1006926 | 0.67 |
|    | HEMBA1006936 | F-HEMBA1006936 | 0.65 |
|    | HEMBA1006941 | F-HEMBA1006941 | 0.94 |
|    | HEMBA1006973 | F-HEMBA1006973 | 0.64 |
| 40 | HEMBA1006976 | F-HEMBA1006976 | 0.40 |
|    | HEMBA1006993 | F-HEMBA1006993 | 0.81 |
|    | HEMBA1006996 | F-HEMBA1006996 | 0.77 |
|    | HEMBA1007002 | F-HEMBA1007002 | 0.72 |
| 45 | HEMBA1007018 | F-HEMBA1007018 | 0.31 |
|    | HEMBA1007052 | F-HEMBA1007052 | 0.41 |
|    | HEMBA1007062 | F-HEMBA1007062 | 0.39 |
|    | HEMBA1007066 | F-HEMBA1007066 | 0.35 |
| 50 | HEMBA1007080 | F-HEMBA1007080 | 0.43 |
|    | HEMBA1007085 | F-HEMBA1007085 | 0.73 |
|    | HEMBA1007087 | F-HEMBA1007087 | 0.94 |
|    | HEMBA1007112 | F-HEMBA1007112 | 0.49 |
| 55 | HEMBA1007121 | F-HEMBA1007121 | 0.70 |
|    | HEMBA1007149 | F-HEMBA1007149 | 0.94 |

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|----|--------------|----------------|-------|
|    | HEMBA1007151 | F-HEMBA1007151 | 0. 80 |
|    | HEMBA1007174 | F-HEMBA1007174 | 0. 63 |
|    | HEMBA1007178 | F-HEMBA1007178 | 0. 47 |
| 5  | HEMBA1007194 | F-HEMBA1007194 | 0. 94 |
|    | HEMBA1007203 | F-HEMBA1007203 | 0. 48 |
|    | HEMBA1007224 | F-HEMBA1007224 | 0. 74 |
|    | HEMBA1007243 | F-HEMBA1007243 | 0. 94 |
| 10 | HEMBA1007251 | F-HEMBA1007251 | 0. 79 |
|    | HEMBA1007267 | F-HEMBA1007267 | 0. 86 |
|    | HEMBA1007281 | F-HEMBA1007281 | 0. 61 |
|    | HEMBA1007300 | F-HEMBA1007300 | 0. 87 |
| 15 | HEMBA1007301 | F-HEMBA1007301 | 0. 38 |
|    | HEMBA1007319 | F-HEMBA1007319 | 0. 47 |
|    | HEMBA1007320 | F-HEMBA1007320 | 0. 69 |
|    | HEMBA1007342 | F-HEMBA1007342 | 0. 80 |
| 20 | HEMBA1000008 | F-HEMBA1000008 | 0. 39 |
|    | HEMBA1000018 | F-HEMBA1000018 | 0. 79 |
|    | HEMBA1000024 | F-HEMBA1000024 | 0. 62 |
|    | HEMBA1000025 | F-HEMBA1000025 | 0. 66 |
| 25 | HEMBA1000030 | F-HEMBA1000030 | 0. 33 |
|    | HEMBA1000036 | F-HEMBA1000036 | 0. 75 |
|    | HEMBA1000037 | F-HEMBA1000037 | 0. 94 |
|    | HEMBA1000048 | F-HEMBA1000048 | 0. 87 |
| 30 | HEMBA1000083 | F-HEMBA1000083 | 0. 48 |
|    | HEMBA1000103 | F-HEMBA1000103 | 0. 63 |
|    | HEMBA1000119 | F-HEMBA1000119 | 0. 94 |
|    | HEMBA1000136 | F-HEMBA1000136 | 0. 92 |
| 35 | HEMBA1000173 | F-HEMBA1000173 | 0. 46 |
|    | HEMBA1000175 | F-HEMBA1000175 | 0. 48 |
|    | HEMBA1000198 | F-HEMBA1000198 | 0. 74 |
|    | HEMBA1000215 | F-HEMBA1000215 | 0. 61 |
| 40 | HEMBA1000217 | F-HEMBA1000217 | 0. 94 |
|    | HEMBA1000226 | F-HEMBA1000226 | 0. 94 |
|    | HEMBA1000240 | F-HEMBA1000240 | 0. 40 |
|    | HEMBA1000244 | F-HEMBA1000244 | 0. 81 |
| 45 | HEMBA1000266 | F-HEMBA1000266 | 0. 92 |
|    | HEMBA1000338 | F-HEMBA1000338 | 0. 33 |
|    | HEMBA1000339 | F-HEMBA1000339 | 0. 40 |
|    | HEMBA1000391 | F-HEMBA1000391 | 0. 43 |
|    | HEMBA1000438 | F-HEMBA1000438 | 0. 79 |
| 50 | HEMBA1000449 | F-HEMBA1000449 | 0. 48 |
|    | HEMBA1000510 | F-HEMBA1000510 | 0. 35 |
|    | HEMBA1000550 | F-HEMBA1000550 | 0. 94 |
|    | HEMBA1000556 | F-HEMBA1000556 | 0. 89 |
| 55 | HEMBA1000589 | F-HEMBA1000589 | 0. 77 |
|    | HEMBA1000591 | F-HEMBA1000591 | 0. 33 |

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|----|--------------|----------------|------|
|    | HEMBB1000592 | F-HEMBB1000592 | 0.77 |
|    | HEMBB1000593 | F-HEMBB1000593 | 0.68 |
|    | HEMBB1000623 | F-HEMBB1000623 | 0.94 |
| 5  | HEMBB1000630 | F-HEMBB1000630 | 0.59 |
|    | HEMBB1000631 | F-HEMBB1000631 | 0.71 |
|    | HEMBB1000632 | F-HEMBB1000632 | 0.38 |
|    | HEMBB1000671 | F-HEMBB1000671 | 0.36 |
| 10 | HEMBB1000673 | F-HEMBB1000673 | 0.54 |
|    | HEMBB1000693 | F-HEMBB1000693 | 0.68 |
|    | HEMBB1000705 | F-HEMBB1000705 | 0.44 |
|    | HEMBB1000706 | F-HEMBB1000706 | 0.45 |
| 15 | HEMBB1000725 | F-HEMBB1000725 | 0.91 |
|    | HEMBB1000763 | F-HEMBB1000763 | 0.87 |
|    | HEMBB1000774 | F-HEMBB1000774 | 0.80 |
|    | HEMBB1000781 | F-HEMBB1000781 | 0.94 |
| 20 | HEMBB1000789 | F-HEMBB1000789 | 0.34 |
|    | HEMBB1000807 | F-HEMBB1000807 | 0.94 |
|    | HEMBB1000810 | F-HEMBB1000810 | 0.33 |
|    | HEMBB1000826 | F-HEMBB1000826 | 0.36 |
| 25 | HEMBB1000835 | F-HEMBB1000835 | 0.81 |
|    | HEMBB1000848 | F-HEMBB1000848 | 0.66 |
|    | HEMBB1000852 | F-HEMBB1000852 | 0.85 |
|    | HEMBB1000870 | F-HEMBB1000870 | 0.34 |
|    | HEMBB1000887 | F-HEMBB1000887 | 0.58 |
| 30 | HEMBB1000908 | F-HEMBB1000908 | 0.31 |
|    | HEMBB1000927 | F-HEMBB1000927 | 0.94 |
|    | HEMBB1000947 | F-HEMBB1000947 | 0.33 |
|    | HEMBB1000973 | F-HEMBB1000973 | 0.72 |
| 35 | HEMBB1000975 | F-HEMBB1000975 | 0.68 |
|    | HEMBB1000985 | F-HEMBB1000985 | 0.62 |
|    | HEMBB1000991 | F-HEMBB1000991 | 0.45 |
|    | HEMBB1001011 | F-HEMBB1001011 | 0.58 |
| 40 | HEMBB1001014 | F-HEMBB1001014 | 0.86 |
|    | HEMBB1001020 | F-HEMBB1001020 | 0.87 |
|    | HEMBB1001024 | F-HEMBB1001024 | 0.64 |
|    | HEMBB1001056 | F-HEMBB1001056 | 0.94 |
| 45 | HEMBB1001058 | F-HEMBB1001058 | 0.39 |
|    | HEMBB1001068 | F-HEMBB1001068 | 0.57 |
|    | HEMBB1001096 | F-HEMBB1001096 | 0.48 |
|    | HEMBB1001105 | F-HEMBB1001105 | 0.45 |
| 50 | HEMBB1001112 | F-HEMBB1001112 | 0.47 |
|    | HEMBB1001117 | F-HEMBB1001117 | 0.83 |
|    | HEMBB1001126 | F-HEMBB1001126 | 0.76 |
|    | HEMBB1001137 | F-HEMBB1001137 | 0.53 |
|    | HEMBB1001151 | F-HEMBB1001151 | 0.94 |
| 55 | HEMBB1001153 | F-HEMBB1001153 | 0.77 |

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|----|--------------|----------------|------|
|    | HEMBB1001169 | F-HEMBB1001169 | 0.39 |
|    | HEMBB1001175 | F-HEMBB1001175 | 0.91 |
| 5  | HEMBB1001182 | F-HEMBB1001182 | 0.94 |
|    | HEMBB1001199 | F-HEMBB1001199 | 0.54 |
|    | HEMBB1001210 | F-HEMBB1001210 | 0.88 |
|    | HEMBB1001234 | F-HEMBB1001234 | 0.67 |
| 10 | HEMBB1001242 | F-HEMBB1001242 | 0.33 |
|    | HEMBB1001288 | F-HEMBB1001288 | 0.33 |
|    | HEMBB1001289 | F-HEMBB1001289 | 0.58 |
|    | HEMBB1001294 | F-HEMBB1001294 | 0.86 |
| 15 | HEMBB1001314 | F-HEMBB1001314 | 0.76 |
|    | HEMBB1001331 | F-HEMBB1001331 | 0.44 |
|    | HEMBB1001339 | F-HEMBB1001339 | 0.40 |
|    | HEMBB1001346 | F-HEMBB1001346 | 0.83 |
|    | HEMBB1001364 | F-HEMBB1001364 | 0.69 |
| 20 | HEMBB1001369 | F-HEMBB1001369 | 0.47 |
|    | HEMBB1001384 | F-HEMBB1001384 | 0.80 |
|    | HEMBB1001387 | F-HEMBB1001387 | 0.36 |
|    | HEMBB1001394 | F-HEMBB1001394 | 0.94 |
| 25 | HEMBB1001410 | F-HEMBB1001410 | 0.51 |
|    | HEMBB1001426 | F-HEMBB1001426 | 0.80 |
|    | HEMBB1001429 | F-HEMBB1001429 | 0.91 |
|    | HEMBB1001449 | F-HEMBB1001449 | 0.31 |
| 30 | HEMBB1001482 | F-HEMBB1001482 | 0.44 |
|    | HEMBB1001531 | F-HEMBB1001531 | 0.58 |
|    | HEMBB1001562 | F-HEMBB1001562 | 0.65 |
|    | HEMBB1001564 | F-HEMBB1001564 | 0.46 |
| 35 | HEMBB1001585 | F-HEMBB1001585 | 0.74 |
|    | HEMBB1001603 | F-HEMBB1001603 | 0.81 |
|    | HEMBB1001635 | F-HEMBB1001635 | 0.46 |
|    | HEMBB1001653 | F-HEMBB1001653 | 0.33 |
|    | HEMBB1001665 | F-HEMBB1001665 | 0.39 |
| 40 | HEMBB1001668 | F-HEMBB1001668 | 0.38 |
|    | HEMBB1001673 | F-HEMBB1001673 | 0.83 |
|    | HEMBB1001684 | F-HEMBB1001684 | 0.44 |
|    | HEMBB1001685 | F-HEMBB1001685 | 0.90 |
| 45 | HEMBB1001695 | F-HEMBB1001695 | 0.92 |
|    | HEMBB1001707 | F-HEMBB1001707 | 0.51 |
|    | HEMBB1001736 | F-HEMBB1001736 | 0.94 |
|    | HEMBB1001760 | F-HEMBB1001760 | 0.88 |
| 50 | HEMBB1001785 | F-HEMBB1001785 | 0.74 |
|    | HEMBB1001812 | F-HEMBB1001812 | 0.33 |
|    | HEMBB1001816 | F-HEMBB1001816 | 0.41 |
|    | HEMBB1001831 | F-HEMBB1001831 | 0.93 |
|    | HEMBB1001834 | F-HEMBB1001834 | 0.78 |
| 55 | HEMBB1001839 | F-HEMBB1001839 | 0.32 |

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|----|--------------|----------------|-------|
|    | HEMBB1001869 | F-HEMBB1001869 | 0. 48 |
|    | HEMBB1001872 | F-HEMBB1001872 | 0. 93 |
| 5  | HEMBB1001874 | F-HEMBB1001874 | 0. 31 |
|    | HEMBB1001905 | F-HEMBB1001905 | 0. 87 |
|    | HEMBB1001906 | F-HEMBB1001906 | 0. 88 |
|    | HEMBB1001908 | F-HEMBB1001908 | 0. 69 |
|    | HEMBB1001910 | F-HEMBB1001910 | 0. 77 |
| 10 | HEMBB1001915 | F-HEMBB1001915 | 0. 76 |
|    | HEMBB1001945 | F-HEMBB1001945 | 0. 64 |
|    | HEMBB1001947 | F-HEMBB1001947 | 0. 94 |
|    | HEMBB1001950 | F-HEMBB1001950 | 0. 73 |
| 15 | HEMBB1001957 | F-HEMBB1001957 | 0. 64 |
|    | HEMBB1001962 | F-HEMBB1001962 | 0. 90 |
|    | HEMBB1001990 | F-HEMBB1001990 | 0. 83 |
|    | HEMBB1002044 | F-HEMBB1002044 | 0. 82 |
| 20 | HEMBB1002050 | F-HEMBB1002050 | 0. 91 |
|    | HEMBB1002068 | F-HEMBB1002068 | 0. 48 |
|    | HEMBB1002134 | F-HEMBB1002134 | 0. 80 |
|    | HEMBB1002142 | F-HEMBB1002142 | 0. 39 |
| 25 | HEMBB1002152 | F-HEMBB1002152 | 0. 31 |
|    | HEMBB1002193 | F-HEMBB1002193 | 0. 35 |
|    | HEMBB1002217 | F-HEMBB1002217 | 0. 49 |
|    | HEMBB1002218 | F-HEMBB1002218 | 0. 32 |
| 30 | HEMBB1002249 | F-HEMBB1002249 | 0. 72 |
|    | HEMBB1002300 | F-HEMBB1002300 | 0. 75 |
|    | HEMBB1002327 | F-HEMBB1002327 | 0. 86 |
|    | HEMBB1002329 | F-HEMBB1002329 | 0. 31 |
| 35 | HEMBB1002340 | F-HEMBB1002340 | 0. 42 |
|    | HEMBB1002342 | F-HEMBB1002342 | 0. 76 |
|    | HEMBB1002358 | F-HEMBB1002358 | 0. 70 |
|    | HEMBB1002359 | F-HEMBB1002359 | 0. 75 |
|    | HEMBB1002383 | F-HEMBB1002383 | 0. 78 |
| 40 | HEMBB1002409 | F-HEMBB1002409 | 0. 52 |
|    | HEMBB1002415 | F-HEMBB1002415 | 0. 82 |
|    | HEMBB1002442 | F-HEMBB1002442 | 0. 31 |
|    | HEMBB1002457 | F-HEMBB1002457 | 0. 46 |
| 45 | HEMBB1002489 | F-HEMBB1002489 | 0. 69 |
|    | HEMBB1002492 | F-HEMBB1002492 | 0. 68 |
|    | HEMBB1002495 | F-HEMBB1002495 | 0. 94 |
|    | HEMBB1002502 | F-HEMBB1002502 | 0. 39 |
| 50 | HEMBB1002510 | F-HEMBB1002510 | 0. 94 |
|    | HEMBB1002545 | F-HEMBB1002545 | 0. 44 |
|    | HEMBB1002550 | F-HEMBB1002550 | 0. 57 |
|    | HEMBB1002600 | F-HEMBB1002600 | 0. 91 |
| 55 | HEMBB1002607 | F-HEMBB1002607 | 0. 83 |
|    | HEMBB1002614 | F-HEMBB1002614 | 0. 75 |

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|----|--------------|----------------|------|
|    | HEMBB1002684 | F-HEMBB1002684 | 0.84 |
|    | HEMBB1002692 | F-HEMBB1002692 | 0.52 |
|    | HEMBB1002697 | F-HEMBB1002697 | 0.86 |
| 5  | HEMBB1002705 | F-HEMBB1002705 | 0.32 |
|    | MAMMA1000019 | F-MAMMA1000019 | 0.48 |
|    | MAMMA1000020 | F-MAMMA1000020 | 0.36 |
|    | MAMMA1000025 | F-MAMMA1000025 | 0.31 |
| 10 | MAMMA1000055 | F-MAMMA1000055 | 0.39 |
|    | MAMMA1000057 | F-MAMMA1000057 | 0.35 |
|    | MAMMA1000069 | F-MAMMA1000069 | 0.78 |
|    | MAMMA1000084 | F-MAMMA1000084 | 0.61 |
| 15 | MAMMA1000085 | F-MAMMA1000085 | 0.72 |
|    | MAMMA1000139 | F-MAMMA1000139 | 0.33 |
|    | MAMMA1000143 | F-MAMMA1000143 | 0.40 |
|    | MAMMA1000163 | F-MAMMA1000163 | 0.94 |
| 20 | MAMMA1000171 | F-MAMMA1000171 | 0.78 |
|    | MAMMA1000173 | F-MAMMA1000173 | 0.94 |
|    | MAMMA1000183 | F-MAMMA1000183 | 0.77 |
|    | MAMMA1000251 | F-MAMMA1000251 | 0.94 |
| 25 | MAMMA1000257 | F-MAMMA1000257 | 0.75 |
|    | MAMMA1000277 | F-MAMMA1000277 | 0.94 |
|    | MAMMA1000278 | F-MAMMA1000278 | 0.35 |
|    | MAMMA1000279 | F-MAMMA1000279 | 0.62 |
| 30 | MAMMA1000284 | F-MAMMA1000284 | 0.35 |
|    | MAMMA1000309 | F-MAMMA1000309 | 0.53 |
|    | MAMMA1000312 | F-MAMMA1000312 | 0.68 |
|    | MAMMA1000313 | F-MAMMA1000313 | 0.32 |
|    | MAMMA1000339 | F-MAMMA1000339 | 0.35 |
| 35 | MAMMA1000361 | F-MAMMA1000361 | 0.61 |
|    | MAMMA1000372 | F-MAMMA1000372 | 0.60 |
|    | MAMMA1000388 | F-MAMMA1000388 | 0.93 |
|    | MAMMA1000395 | F-MAMMA1000395 | 0.94 |
| 40 | MAMMA1000410 | F-MAMMA1000410 | 0.94 |
|    | MAMMA1000416 | F-MAMMA1000416 | 0.89 |
|    | MAMMA1000421 | F-MAMMA1000421 | 0.50 |
|    | MAMMA1000422 | F-MAMMA1000422 | 0.92 |
| 45 | MAMMA1000429 | F-MAMMA1000429 | 0.92 |
|    | MAMMA1000458 | F-MAMMA1000458 | 0.88 |
|    | MAMMA1000468 | F-MAMMA1000468 | 0.60 |
|    | MAMMA1000472 | F-MAMMA1000472 | 0.33 |
| 50 | MAMMA1000490 | F-MAMMA1000490 | 0.34 |
|    | MAMMA1000524 | F-MAMMA1000524 | 0.39 |
|    | MAMMA1000567 | F-MAMMA1000567 | 0.40 |
|    | MAMMA1000583 | F-MAMMA1000583 | 0.45 |
|    | MAMMA1000612 | F-MAMMA1000612 | 0.89 |
| 55 | MAMMA1000623 | F-MAMMA1000623 | 0.44 |

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|----|--------------|----------------|-------|
|    | MAMMA1000625 | F-MAMMA1000625 | 0. 52 |
|    | MAMMA1000664 | F-MAMMA1000664 | 0. 42 |
| 5  | MAMMA1000670 | F-MAMMA1000670 | 0. 94 |
|    | MAMMA1000672 | F-MAMMA1000672 | 0. 44 |
|    | MAMMA1000684 | F-MAMMA1000684 | 0. 94 |
|    | MAMMA1000713 | F-MAMMA1000713 | 0. 88 |
| 10 | MAMMA1000731 | F-MAMMA1000731 | 0. 67 |
|    | MAMMA1000734 | F-MAMMA1000734 | 0. 40 |
|    | MAMMA1000738 | F-MAMMA1000738 | 0. 93 |
|    | MAMMA1000746 | F-MAMMA1000746 | 0. 48 |
|    | MAMMA1000760 | F-MAMMA1000760 | 0. 94 |
| 15 | MAMMA1000776 | F-MAMMA1000776 | 0. 94 |
|    | MAMMA1000824 | F-MAMMA1000824 | 0. 81 |
|    | MAMMA1000831 | F-MAMMA1000831 | 0. 39 |
|    | MAMMA1000841 | F-MAMMA1000841 | 0. 41 |
| 20 | MAMMA1000842 | F-MAMMA1000842 | 0. 61 |
|    | MAMMA1000843 | F-MAMMA1000843 | 0. 48 |
|    | MAMMA1000856 | F-MAMMA1000856 | 0. 31 |
|    | MAMMA1000859 | F-MAMMA1000859 | 0. 44 |
| 25 | MAMMA1000865 | F-MAMMA1000865 | 0. 94 |
|    | MAMMA1000875 | F-MAMMA1000875 | 0. 49 |
|    | MAMMA1000897 | F-MAMMA1000897 | 0. 94 |
|    | MAMMA1000906 | F-MAMMA1000906 | 0. 45 |
| 30 | MAMMA1000908 | F-MAMMA1000908 | 0. 39 |
|    | MAMMA1000914 | F-MAMMA1000914 | 0. 94 |
|    | MAMMA1000921 | F-MAMMA1000921 | 0. 34 |
|    | MAMMA1000956 | F-MAMMA1000956 | 0. 39 |
| 35 | MAMMA1000968 | F-MAMMA1000968 | 0. 35 |
|    | MAMMA1000979 | F-MAMMA1000979 | 0. 68 |
|    | MAMMA1001008 | F-MAMMA1001008 | 0. 36 |
|    | MAMMA1001021 | F-MAMMA1001021 | 0. 48 |
| 40 | MAMMA1001041 | F-MAMMA1001041 | 0. 34 |
|    | MAMMA1001059 | F-MAMMA1001059 | 0. 94 |
|    | MAMMA1001073 | F-MAMMA1001073 | 0. 94 |
|    | MAMMA1001075 | F-MAMMA1001075 | 0. 94 |
|    | MAMMA1001078 | F-MAMMA1001078 | 0. 52 |
| 45 | MAMMA1001080 | F-MAMMA1001080 | 0. 87 |
|    | MAMMA1001091 | F-MAMMA1001091 | 0. 53 |
|    | MAMMA1001105 | F-MAMMA1001105 | 0. 94 |
|    | MAMMA1001110 | F-MAMMA1001110 | 0. 78 |
| 50 | MAMMA1001126 | F-MAMMA1001126 | 0. 85 |
|    | MAMMA1001139 | F-MAMMA1001139 | 0. 38 |
|    | MAMMA1001143 | F-MAMMA1001143 | 0. 79 |
|    | MAMMA1001154 | F-MAMMA1001154 | 0. 31 |
| 55 | MAMMA1001181 | F-MAMMA1001181 | 0. 69 |
|    | MAMMA1001198 | F-MAMMA1001198 | 0. 88 |



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|----|--------------|----------------|------|
|    | MAMMA1001202 | F-MAMMA1001202 | 0.38 |
|    | MAMMA1001215 | F-MAMMA1001215 | 0.94 |
| 5  | MAMMA1001222 | F-MAMMA1001222 | 0.89 |
|    | MAMMA1001244 | F-MAMMA1001244 | 0.87 |
|    | MAMMA1001259 | F-MAMMA1001259 | 0.91 |
|    | MAMMA1001260 | F-MAMMA1001260 | 0.75 |
| 10 | MAMMA1001271 | F-MAMMA1001271 | 0.77 |
|    | MAMMA1001292 | F-MAMMA1001292 | 0.94 |
|    | MAMMA1001296 | F-MAMMA1001296 | 0.75 |
|    | MAMMA1001305 | F-MAMMA1001305 | 0.66 |
| 15 | MAMMA1001343 | F-MAMMA1001343 | 0.38 |
|    | MAMMA1001346 | F-MAMMA1001346 | 0.81 |
|    | MAMMA1001388 | F-MAMMA1001388 | 0.94 |
|    | MAMMA1001411 | F-MAMMA1001411 | 0.42 |
|    | MAMMA1001419 | F-MAMMA1001419 | 0.45 |
| 20 | MAMMA1001465 | F-MAMMA1001465 | 0.94 |
|    | MAMMA1001476 | F-MAMMA1001476 | 0.90 |
|    | MAMMA1001487 | F-MAMMA1001487 | 0.78 |
|    | MAMMA1001510 | F-MAMMA1001510 | 0.82 |
| 25 | MAMMA1001522 | F-MAMMA1001522 | 0.63 |
|    | MAMMA1001551 | F-MAMMA1001551 | 0.81 |
|    | MAMMA1001576 | F-MAMMA1001576 | 0.94 |
|    | MAMMA1001600 | F-MAMMA1001600 | 0.72 |
| 30 | MAMMA1001604 | F-MAMMA1001604 | 0.87 |
|    | MAMMA1001620 | F-MAMMA1001620 | 0.43 |
|    | MAMMA1001627 | F-MAMMA1001627 | 0.39 |
|    | MAMMA1001630 | F-MAMMA1001630 | 0.46 |
| 35 | MAMMA1001633 | F-MAMMA1001633 | 0.58 |
|    | MAMMA1001635 | F-MAMMA1001635 | 0.89 |
|    | MAMMA1001649 | F-MAMMA1001649 | 0.62 |
|    | MAMMA1001654 | F-MAMMA1001654 | 0.94 |
| 40 | MAMMA1001692 | F-MAMMA1001692 | 0.83 |
|    | MAMMA1001730 | F-MAMMA1001730 | 0.48 |
|    | MAMMA1001735 | F-MAMMA1001735 | 0.94 |
|    | MAMMA1001743 | F-MAMMA1001743 | 0.94 |
|    | MAMMA1001744 | F-MAMMA1001744 | 0.33 |
| 45 | MAMMA1001751 | F-MAMMA1001751 | 0.94 |
|    | MAMMA1001754 | F-MAMMA1001754 | 0.47 |
|    | MAMMA1001757 | F-MAMMA1001757 | 0.38 |
|    | MAMMA1001764 | F-MAMMA1001764 | 0.57 |
| 50 | MAMMA1001768 | F-MAMMA1001768 | 0.85 |
|    | MAMMA1001771 | F-MAMMA1001771 | 0.39 |
|    | MAMMA1001783 | F-MAMMA1001783 | 0.61 |
|    | MAMMA1001785 | F-MAMMA1001785 | 0.41 |
| 55 | MAMMA1001790 | F-MAMMA1001790 | 0.69 |
|    | MAMMA1001812 | F-MAMMA1001812 | 0.32 |

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|----|--------------|----------------|------|
|    | MAMMA1001817 | F-MAMMA1001817 | 0.55 |
|    | MAMMA1001824 | F-MAMMA1001824 | 0.57 |
| 5  | MAMMA1001837 | F-MAMMA1001837 | 0.35 |
|    | MAMMA1001848 | F-MAMMA1001848 | 0.38 |
|    | MAMMA1001851 | F-MAMMA1001851 | 0.46 |
|    | MAMMA1001858 | F-MAMMA1001858 | 0.53 |
| 10 | MAMMA1001864 | F-MAMMA1001864 | 0.32 |
|    | MAMMA1001868 | F-MAMMA1001868 | 0.48 |
|    | MAMMA1001874 | F-MAMMA1001874 | 0.94 |
|    | MAMMA1001956 | F-MAMMA1001956 | 0.47 |
|    | MAMMA1001969 | F-MAMMA1001969 | 0.31 |
| 15 | MAMMA1001970 | F-MAMMA1001970 | 0.34 |
|    | MAMMA1002009 | F-MAMMA1002009 | 0.45 |
|    | MAMMA1002011 | F-MAMMA1002011 | 0.94 |
|    | MAMMA1002033 | F-MAMMA1002033 | 0.33 |
| 20 | MAMMA1002041 | F-MAMMA1002041 | 0.86 |
|    | MAMMA1002042 | F-MAMMA1002042 | 0.88 |
|    | MAMMA1002047 | F-MAMMA1002047 | 0.41 |
|    | MAMMA1002068 | F-MAMMA1002068 | 0.38 |
| 25 | MAMMA1002143 | F-MAMMA1002143 | 0.91 |
|    | MAMMA1002153 | F-MAMMA1002153 | 0.94 |
|    | MAMMA1002156 | F-MAMMA1002156 | 0.73 |
|    | MAMMA1002170 | F-MAMMA1002170 | 0.43 |
| 30 | MAMMA1002174 | F-MAMMA1002174 | 0.69 |
|    | MAMMA1002198 | F-MAMMA1002198 | 0.65 |
|    | MAMMA1002209 | F-MAMMA1002209 | 0.80 |
|    | MAMMA1002219 | F-MAMMA1002219 | 0.85 |
| 35 | MAMMA1002236 | F-MAMMA1002236 | 0.55 |
|    | MAMMA1002243 | F-MAMMA1002243 | 0.50 |
|    | MAMMA1002268 | F-MAMMA1002268 | 0.43 |
|    | MAMMA1002269 | F-MAMMA1002269 | 0.33 |
|    | MAMMA1002292 | F-MAMMA1002292 | 0.76 |
| 40 | MAMMA1002294 | F-MAMMA1002294 | 0.94 |
|    | MAMMA1002297 | F-MAMMA1002297 | 0.91 |
|    | MAMMA1002308 | F-MAMMA1002308 | 0.68 |
|    | MAMMA1002312 | F-MAMMA1002312 | 0.77 |
| 45 | MAMMA1002317 | F-MAMMA1002317 | 0.46 |
|    | MAMMA1002319 | F-MAMMA1002319 | 0.31 |
|    | MAMMA1002329 | F-MAMMA1002329 | 0.34 |
|    | MAMMA1002333 | F-MAMMA1002333 | 0.65 |
| 50 | MAMMA1002351 | F-MAMMA1002351 | 0.89 |
|    | MAMMA1002353 | F-MAMMA1002353 | 0.94 |
|    | MAMMA1002355 | F-MAMMA1002355 | 0.55 |
|    | MAMMA1002356 | F-MAMMA1002356 | 0.32 |
| 55 | MAMMA1002362 | F-MAMMA1002362 | 0.83 |
|    | MAMMA1002380 | F-MAMMA1002380 | 0.94 |

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|----|--------------|----------------|------|
|    | MAMMA1002384 | F-MAMMA1002384 | 0.42 |
|    | MAMMA1002385 | F-MAMMA1002385 | 0.82 |
| 5  | MAMMA1002413 | F-MAMMA1002413 | 0.94 |
|    | MAMMA1002427 | F-MAMMA1002427 | 0.40 |
|    | MAMMA1002434 | F-MAMMA1002434 | 0.74 |
|    | MAMMA1002454 | F-MAMMA1002454 | 0.82 |
| 10 | MAMMA1002461 | F-MAMMA1002461 | 0.49 |
|    | MAMMA1002470 | F-MAMMA1002470 | 0.89 |
|    | MAMMA1002485 | F-MAMMA1002485 | 0.55 |
|    | MAMMA1002524 | F-MAMMA1002524 | 0.33 |
| 15 | MAMMA1002530 | F-MAMMA1002530 | 0.75 |
|    | MAMMA1002554 | F-MAMMA1002554 | 0.41 |
|    | MAMMA1002585 | F-MAMMA1002585 | 0.31 |
|    | MAMMA1002590 | F-MAMMA1002590 | 0.72 |
|    | MAMMA1002598 | F-MAMMA1002598 | 0.76 |
| 20 | MAMMA1002617 | F-MAMMA1002617 | 0.49 |
|    | MAMMA1002619 | F-MAMMA1002619 | 0.88 |
|    | MAMMA1002637 | F-MAMMA1002637 | 0.94 |
|    | MAMMA1002650 | F-MAMMA1002650 | 0.54 |
| 25 | MAMMA1002655 | F-MAMMA1002655 | 0.39 |
|    | MAMMA1002665 | F-MAMMA1002665 | 0.33 |
|    | MAMMA1002671 | F-MAMMA1002671 | 0.94 |
|    | MAMMA1002673 | F-MAMMA1002673 | 0.70 |
| 30 | MAMMA1002684 | F-MAMMA1002684 | 0.94 |
|    | MAMMA1002685 | F-MAMMA1002685 | 0.88 |
|    | MAMMA1002699 | F-MAMMA1002699 | 0.94 |
|    | MAMMA1002711 | F-MAMMA1002711 | 0.39 |
| 35 | MAMMA1002769 | F-MAMMA1002769 | 0.88 |
|    | MAMMA1002775 | F-MAMMA1002775 | 0.81 |
|    | MAMMA1002782 | F-MAMMA1002782 | 0.87 |
|    | MAMMA1002796 | F-MAMMA1002796 | 0.40 |
| 40 | MAMMA1002807 | F-MAMMA1002807 | 0.64 |
|    | MAMMA1002842 | F-MAMMA1002842 | 0.94 |
|    | MAMMA1002843 | F-MAMMA1002843 | 0.32 |
|    | MAMMA1002868 | F-MAMMA1002868 | 0.54 |
|    | MAMMA1002869 | F-MAMMA1002869 | 0.94 |
| 45 | MAMMA1002881 | F-MAMMA1002881 | 0.94 |
|    | MAMMA1002886 | F-MAMMA1002886 | 0.61 |
|    | MAMMA1002890 | F-MAMMA1002890 | 0.94 |
|    | MAMMA1002895 | F-MAMMA1002895 | 0.94 |
| 50 | MAMMA1002937 | F-MAMMA1002937 | 0.91 |
|    | MAMMA1002938 | F-MAMMA1002938 | 0.78 |
|    | MAMMA1002947 | F-MAMMA1002947 | 0.94 |
|    | MAMMA1002964 | F-MAMMA1002964 | 0.34 |
| 55 | MAMMA1002987 | F-MAMMA1002987 | 0.74 |
|    | MAMMA1003011 | F-MAMMA1003011 | 0.90 |

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|----|--------------|----------------|------|
|    | MAMMA1003013 | F-MAMMA1003013 | 0.36 |
|    | MAMMA1003015 | F-MAMMA1003015 | 0.92 |
| 5  | MAMMA1003035 | F-MAMMA1003035 | 0.94 |
|    | MAMMA1003044 | F-MAMMA1003044 | 0.61 |
|    | MAMMA1003047 | F-MAMMA1003047 | 0.94 |
|    | MAMMA1003049 | F-MAMMA1003049 | 0.31 |
| 10 | MAMMA1003056 | F-MAMMA1003056 | 0.75 |
|    | MAMMA1003057 | F-MAMMA1003057 | 0.33 |
|    | MAMMA1003066 | F-MAMMA1003066 | 0.38 |
|    | MAMMA1003099 | F-MAMMA1003099 | 0.79 |
| 15 | MAMMA1003104 | F-MAMMA1003104 | 0.44 |
|    | MAMMA1003113 | F-MAMMA1003113 | 0.90 |
|    | MAMMA1003127 | F-MAMMA1003127 | 0.53 |
|    | MAMMA1003135 | F-MAMMA1003135 | 0.94 |
|    | MAMMA1003146 | F-MAMMA1003146 | 0.88 |
| 20 | MAMMA1003150 | F-MAMMA1003150 | 0.73 |
|    | MAMMA1003166 | F-MAMMA1003166 | 0.94 |
|    | NT2RM1000001 | F-NT2RM1000001 | 0.66 |
|    | NT2RM1000018 | F-NT2RM1000018 | 0.55 |
| 25 | NT2RM1000032 | F-NT2RM1000032 | 0.74 |
|    | NT2RM1000035 | F-NT2RM1000035 | 0.52 |
|    | NT2RM1000037 | F-NT2RM1000037 | 0.94 |
|    | NT2RM1000039 | F-NT2RM1000039 | 0.77 |
| 30 | NT2RM1000055 | F-NT2RM1000055 | 0.89 |
|    | NT2RM1000059 | F-NT2RM1000059 | 0.41 |
|    | NT2RM1000062 | F-NT2RM1000062 | 0.65 |
|    | NT2RM1000080 | F-NT2RM1000080 | 0.61 |
| 35 | NT2RM1000086 | F-NT2RM1000086 | 0.94 |
|    | NT2RM1000092 | F-NT2RM1000092 | 0.94 |
|    | NT2RM1000118 | F-NT2RM1000118 | 0.76 |
|    | NT2RM1000119 | F-NT2RM1000119 | 0.41 |
| 40 | NT2RM1000127 | F-NT2RM1000127 | 0.94 |
|    | NT2RM1000131 | F-NT2RM1000131 | 0.90 |
|    | NT2RM1000132 | F-NT2RM1000132 | 0.94 |
|    | NT2RM1000153 | F-NT2RM1000153 | 0.90 |
|    | NT2RM1000186 | F-NT2RM1000186 | 0.78 |
| 45 | NT2RM1000187 | F-NT2RM1000187 | 0.54 |
|    | NT2RM1000199 | F-NT2RM1000199 | 0.33 |
|    | NT2RM1000242 | F-NT2RM1000242 | 0.78 |
|    | NT2RM1000244 | F-NT2RM1000244 | 0.31 |
| 50 | NT2RM1000252 | F-NT2RM1000252 | 0.76 |
|    | NT2RM1000256 | F-NT2RM1000256 | 0.94 |
|    | NT2RM1000257 | F-NT2RM1000257 | 0.89 |
|    | NT2RM1000260 | F-NT2RM1000260 | 0.42 |
| 55 | NT2RM1000271 | F-NT2RM1000271 | 0.74 |
|    | NT2RM1000272 | F-NT2RM1000272 | 0.78 |

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|----|--------------|----------------|------|
|    | NT2RM1000280 | F-NT2RM1000280 | 0.94 |
|    | NT2RM1000300 | F-NT2RM1000300 | 0.47 |
| 5  | NT2RM1000314 | F-NT2RM1000314 | 0.61 |
|    | NT2RM1000318 | F-NT2RM1000318 | 0.94 |
|    | NT2RM1000341 | F-NT2RM1000341 | 0.70 |
|    | NT2RM1000354 | F-NT2RM1000354 | 0.82 |
| 10 | NT2RM1000355 | F-NT2RM1000355 | 0.94 |
|    | NT2RM1000365 | F-NT2RM1000365 | 0.31 |
|    | NT2RM1000377 | F-NT2RM1000377 | 0.87 |
|    | NT2RM1000388 | F-NT2RM1000388 | 0.94 |
|    | NT2RM1000394 | F-NT2RM1000394 | 0.58 |
| 15 | NT2RM1000399 | F-NT2RM1000399 | 0.86 |
|    | NT2RM1000421 | F-NT2RM1000421 | 0.39 |
|    | NT2RM1000430 | F-NT2RM1000430 | 0.94 |
|    | NT2RM1000499 | F-NT2RM1000499 | 0.44 |
| 20 | NT2RM1000539 | F-NT2RM1000539 | 0.87 |
|    | NT2RM1000553 | F-NT2RM1000553 | 0.88 |
|    | NT2RM1000555 | F-NT2RM1000555 | 0.37 |
|    | NT2RM1000563 | F-NT2RM1000563 | 0.63 |
| 25 | NT2RM1000623 | F-NT2RM1000623 | 0.34 |
|    | NT2RM1000648 | F-NT2RM1000648 | 0.94 |
|    | NT2RM1000661 | F-NT2RM1000661 | 0.61 |
|    | NT2RM1000666 | F-NT2RM1000666 | 0.94 |
| 30 | NT2RM1000669 | F-NT2RM1000669 | 0.94 |
|    | NT2RM1000672 | F-NT2RM1000672 | 0.53 |
|    | NT2RM1000691 | F-NT2RM1000691 | 0.38 |
|    | NT2RM1000699 | F-NT2RM1000699 | 0.32 |
| 35 | NT2RM1000702 | F-NT2RM1000702 | 0.74 |
|    | NT2RM1000725 | F-NT2RM1000725 | 0.75 |
|    | NT2RM1000741 | F-NT2RM1000741 | 0.94 |
|    | NT2RM1000742 | F-NT2RM1000742 | 0.54 |
|    | NT2RM1000746 | F-NT2RM1000746 | 0.94 |
| 40 | NT2RM1000770 | F-NT2RM1000770 | 0.48 |
|    | NT2RM1000772 | F-NT2RM1000772 | 0.39 |
|    | NT2RM1000780 | F-NT2RM1000780 | 0.66 |
|    | NT2RM1000781 | F-NT2RM1000781 | 0.49 |
| 45 | NT2RM1000800 | F-NT2RM1000800 | 0.72 |
|    | NT2RM1000802 | F-NT2RM1000802 | 0.89 |
|    | NT2RM1000811 | F-NT2RM1000811 | 0.53 |
|    | NT2RM1000826 | F-NT2RM1000826 | 0.39 |
| 50 | NT2RM1000829 | F-NT2RM1000829 | 0.63 |
|    | NT2RM1000833 | F-NT2RM1000833 | 0.94 |
|    | NT2RM1000850 | F-NT2RM1000850 | 0.89 |
|    | NT2RM1000852 | F-NT2RM1000852 | 0.88 |
|    | NT2RM1000857 | F-NT2RM1000857 | 0.58 |
| 55 | NT2RM1000867 | F-NT2RM1000867 | 0.90 |

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|----|--------------|----------------|------|
|    | NT2RM1000874 | F-NT2RM1000874 | 0.89 |
|    | NT2RM1000882 | F-NT2RM1000882 | 0.63 |
| 5  | NT2RM1000883 | F-NT2RM1000883 | 0.71 |
|    | NT2RM1000885 | F-NT2RM1000885 | 0.89 |
|    | NT2RM1000894 | F-NT2RM1000894 | 0.57 |
|    | NT2RM1000898 | F-NT2RM1000898 | 0.87 |
| 10 | NT2RM1000905 | F-NT2RM1000905 | 0.94 |
|    | NT2RM1000924 | F-NT2RM1000924 | 0.88 |
|    | NT2RM1000927 | F-NT2RM1000927 | 0.70 |
|    | NT2RM1000962 | F-NT2RM1000962 | 0.84 |
|    | NT2RM1000978 | F-NT2RM1000978 | 0.39 |
| 15 | NT2RM1001003 | F-NT2RM1001003 | 0.81 |
|    | NT2RM1001008 | F-NT2RM1001008 | 0.94 |
|    | NT2RM1001043 | F-NT2RM1001043 | 0.94 |
|    | NT2RM1001044 | F-NT2RM1001044 | 0.94 |
| 20 | NT2RM1001059 | F-NT2RM1001059 | 0.94 |
|    | NT2RM1001066 | F-NT2RM1001066 | 0.94 |
|    | NT2RM1001072 | F-NT2RM1001072 | 0.77 |
|    | NT2RM1001074 | F-NT2RM1001074 | 0.94 |
| 25 | NT2RM1001082 | F-NT2RM1001082 | 0.94 |
|    | NT2RM1001085 | F-NT2RM1001085 | 0.83 |
|    | NT2RM1001092 | F-NT2RM1001092 | 0.77 |
|    | NT2RM1001102 | F-NT2RM1001102 | 0.59 |
| 30 | NT2RM1001105 | F-NT2RM1001105 | 0.94 |
|    | NT2RM1001112 | F-NT2RM1001112 | 0.50 |
|    | NT2RM1001115 | F-NT2RM1001115 | 0.32 |
|    | NT2RM1001139 | F-NT2RM1001139 | 0.77 |
| 35 | NT2RM2000006 | F-NT2RM2000006 | 0.34 |
|    | NT2RM2000013 | F-NT2RM2000013 | 0.70 |
|    | NT2RM2000030 | F-NT2RM2000030 | 0.89 |
|    | NT2RM2000032 | F-NT2RM2000032 | 0.36 |
| 40 | NT2RM2000042 | F-NT2RM2000042 | 0.32 |
|    | NT2RM2000092 | F-NT2RM2000092 | 0.55 |
|    | NT2RM2000093 | F-NT2RM2000093 | 0.33 |
|    | NT2RM2000101 | F-NT2RM2000101 | 0.77 |
|    | NT2RM2000124 | F-NT2RM2000124 | 0.94 |
| 45 | NT2RM2000191 | F-NT2RM2000191 | 0.80 |
|    | NT2RM2000192 | F-NT2RM2000192 | 0.93 |
|    | NT2RM2000239 | F-NT2RM2000239 | 0.68 |
|    | NNNNNNNNNNNN | F-NNNNNNNNNNNN | 0.94 |
| 50 | NT2RM2000250 | F-NT2RM2000250 | 0.94 |
|    | NT2RM2000259 | F-NT2RM2000259 | 0.68 |
|    | NT2RM2000260 | F-NT2RM2000260 | 0.37 |
|    | NT2RM2000287 | F-NT2RM2000287 | 0.46 |
| 55 | NT2RM2000322 | F-NT2RM2000322 | 0.83 |
|    | NT2RM2000359 | F-NT2RM2000359 | 0.94 |

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|----|--------------|----------------|------|
|    | NT2RM2000363 | F-NT2RM2000363 | 0.91 |
|    | NT2RM2000368 | F-NT2RM2000368 | 0.34 |
| 5  | NT2RM2000371 | F-NT2RM2000371 | 0.94 |
|    | NT2RM2000374 | F-NT2RM2000374 | 0.65 |
|    | NT2RM2000395 | F-NT2RM2000395 | 0.33 |
|    | NT2RM2000402 | F-NT2RM2000402 | 0.80 |
| 10 | NT2RM2000407 | F-NT2RM2000407 | 0.88 |
|    | NT2RM2000420 | F-NT2RM2000420 | 0.92 |
|    | NT2RM2000422 | F-NT2RM2000422 | 0.49 |
|    | NT2RM2000452 | F-NT2RM2000452 | 0.93 |
| 15 | NT2RM2000469 | F-NT2RM2000469 | 0.39 |
|    | NT2RM2000490 | F-NT2RM2000490 | 0.90 |
|    | NT2RM2000502 | F-NT2RM2000502 | 0.64 |
|    | NT2RM2000504 | F-NT2RM2000504 | 0.71 |
| 20 | NT2RM2000522 | F-NT2RM2000522 | 0.91 |
|    | NT2RM2000540 | F-NT2RM2000540 | 0.87 |
|    | NT2RM2000556 | F-NT2RM2000556 | 0.91 |
|    | NT2RM2000566 | F-NT2RM2000566 | 0.39 |
|    | NT2RM2000567 | F-NT2RM2000567 | 0.44 |
| 25 | NT2RM2000569 | F-NT2RM2000569 | 0.49 |
|    | NT2RM2000577 | F-NT2RM2000577 | 0.45 |
|    | NT2RM2000581 | F-NT2RM2000581 | 0.72 |
|    | NT2RM2000588 | F-NT2RM2000588 | 0.31 |
| 30 | NT2RM2000594 | F-NT2RM2000594 | 0.79 |
|    | NT2RM2000599 | F-NT2RM2000599 | 0.80 |
|    | NT2RM2000612 | F-NT2RM2000612 | 0.75 |
|    | NT2RM2000623 | F-NT2RM2000623 | 0.72 |
| 35 | NT2RM2000624 | F-NT2RM2000624 | 0.94 |
|    | NT2RM2000635 | F-NT2RM2000635 | 0.73 |
|    | NT2RM2000636 | F-NT2RM2000636 | 0.45 |
|    | NT2RM2000639 | F-NT2RM2000639 | 0.43 |
| 40 | NT2RM2000649 | F-NT2RM2000649 | 0.74 |
|    | NT2RM2000669 | F-NT2RM2000669 | 0.94 |
|    | NT2RM2000691 | F-NT2RM2000691 | 0.84 |
|    | NT2RM2000714 | F-NT2RM2000714 | 0.92 |
| 45 | NT2RM2000718 | F-NT2RM2000718 | 0.52 |
|    | NT2RM2000735 | F-NT2RM2000735 | 0.33 |
|    | NT2RM2000740 | F-NT2RM2000740 | 0.94 |
|    | NT2RM2000795 | F-NT2RM2000795 | 0.44 |
|    | NT2RM2000821 | F-NT2RM2000821 | 0.33 |
| 50 | NT2RM2000837 | F-NT2RM2000837 | 0.57 |
|    | NT2RM2000951 | F-NT2RM2000951 | 0.32 |
|    | NT2RM2000952 | F-NT2RM2000952 | 0.50 |
|    | NT2RM2000984 | F-NT2RM2000984 | 0.76 |
| 55 | NT2RM2001004 | F-NT2RM2001004 | 0.55 |
|    | NT2RM2001035 | F-NT2RM2001035 | 0.82 |

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|----|--------------|----------------|-------|
|    | NT2RM2001065 | F-NT2RM2001065 | 0. 65 |
|    | NT2RM2001100 | F-NT2RM2001100 | 0. 89 |
| 5  | NT2RM2001105 | F-NT2RM2001105 | 0. 94 |
|    | NT2RM2001131 | F-NT2RM2001131 | 0. 94 |
|    | NT2RM2001141 | F-NT2RM2001141 | 0. 74 |
|    | NT2RM2001152 | F-NT2RM2001152 | 0. 33 |
| 10 | NT2RM2001177 | F-NT2RM2001177 | 0. 32 |
|    | NT2RM2001194 | F-NT2RM2001194 | 0. 83 |
|    | NT2RM2001196 | F-NT2RM2001196 | 0. 42 |
|    | NT2RM2001201 | F-NT2RM2001201 | 0. 90 |
| 15 | NT2RM2001221 | F-NT2RM2001221 | 0. 39 |
|    | NT2RM2001238 | F-NT2RM2001238 | 0. 94 |
|    | NT2RM2001243 | F-NT2RM2001243 | 0. 44 |
|    | NT2RM2001247 | F-NT2RM2001247 | 0. 42 |
| 20 | NT2RM2001256 | F-NT2RM2001256 | 0. 60 |
|    | NT2RM2001291 | F-NT2RM2001291 | 0. 39 |
|    | NT2RM2001306 | F-NT2RM2001306 | 0. 81 |
|    | NT2RM2001312 | F-NT2RM2001312 | 0. 64 |
|    | NT2RM2001319 | F-NT2RM2001319 | 0. 53 |
| 25 | NT2RM2001324 | F-NT2RM2001324 | 0. 94 |
|    | NT2RM2001345 | F-NT2RM2001345 | 0. 94 |
|    | NT2RM2001360 | F-NT2RM2001360 | 0. 69 |
|    | NT2RM2001370 | F-NT2RM2001370 | 0. 44 |
| 30 | NT2RM2001393 | F-NT2RM2001393 | 0. 94 |
|    | NT2RM2001420 | F-NT2RM2001420 | 0. 46 |
|    | NT2RM2001424 | F-NT2RM2001424 | 0. 94 |
|    | NT2RM2001499 | F-NT2RM2001499 | 0. 63 |
| 35 | NT2RM2001504 | F-NT2RM2001504 | 0. 94 |
|    | NT2RM2001524 | F-NT2RM2001524 | 0. 76 |
|    | NT2RM2001544 | F-NT2RM2001544 | 0. 59 |
|    | NT2RM2001547 | F-NT2RM2001547 | 0. 48 |
| 40 | NT2RM2001575 | F-NT2RM2001575 | 0. 91 |
|    | NT2RM2001582 | F-NT2RM2001582 | 0. 34 |
|    | NT2RM2001588 | F-NT2RM2001588 | 0. 48 |
|    | NT2RM2001592 | F-NT2RM2001592 | 0. 64 |
|    | NT2RM2001605 | F-NT2RM2001605 | 0. 47 |
| 45 | NT2RM2001613 | F-NT2RM2001613 | 0. 61 |
|    | NT2RM2001632 | F-NT2RM2001632 | 0. 31 |
|    | NT2RM2001635 | F-NT2RM2001635 | 0. 39 |
|    | NT2RM2001637 | F-NT2RM2001637 | 0. 71 |
| 50 | NT2RM2001641 | F-NT2RM2001641 | 0. 73 |
|    | NT2RM2001648 | F-NT2RM2001648 | 0. 44 |
|    | NT2RM2001652 | F-NT2RM2001652 | 0. 40 |
|    | NT2RM2001659 | F-NT2RM2001659 | 0. 35 |
| 55 | NT2RM2001664 | F-NT2RM2001664 | 0. 53 |
|    | NT2RM2001668 | F-NT2RM2001668 | 0. 64 |



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|----|--------------|----------------|------|
|    | NT2RM2001670 | F-NT2RM2001670 | 0.59 |
|    | NT2RM2001671 | F-NT2RM2001671 | 0.41 |
| 5  | NT2RM2001675 | F-NT2RM2001675 | 0.51 |
|    | NT2RM2001681 | F-NT2RM2001681 | 0.33 |
|    | NT2RM2001688 | F-NT2RM2001688 | 0.74 |
|    | NT2RM2001695 | F-NT2RM2001695 | 0.31 |
| 10 | NT2RM2001696 | F-NT2RM2001696 | 0.94 |
|    | NT2RM2001698 | F-NT2RM2001698 | 0.69 |
|    | NT2RM2001699 | F-NT2RM2001699 | 0.85 |
|    | NT2RM2001700 | F-NT2RM2001700 | 0.71 |
|    | NT2RM2001706 | F-NT2RM2001706 | 0.38 |
| 15 | NT2RM2001716 | F-NT2RM2001716 | 0.78 |
|    | NT2RM2001718 | F-NT2RM2001718 | 0.81 |
|    | NT2RM2001723 | F-NT2RM2001723 | 0.83 |
|    | NT2RM2001727 | F-NT2RM2001727 | 0.87 |
| 20 | NT2RM2001730 | F-NT2RM2001730 | 0.94 |
|    | NT2RM2001743 | F-NT2RM2001743 | 0.94 |
|    | NT2RM2001753 | F-NT2RM2001753 | 0.75 |
|    | NT2RM2001760 | F-NT2RM2001760 | 0.75 |
| 25 | NT2RM2001768 | F-NT2RM2001768 | 0.71 |
|    | NT2RM2001771 | F-NT2RM2001771 | 0.33 |
|    | NT2RM2001782 | F-NT2RM2001782 | 0.34 |
|    | NT2RM2001784 | F-NT2RM2001784 | 0.45 |
| 30 | NT2RM2001785 | F-NT2RM2001785 | 0.94 |
|    | NT2RM2001797 | F-NT2RM2001797 | 0.74 |
|    | NT2RM2001800 | F-NT2RM2001800 | 0.90 |
|    | NT2RM2001803 | F-NT2RM2001803 | 0.36 |
|    | NT2RM2001805 | F-NT2RM2001805 | 0.81 |
| 35 | NT2RM2001813 | F-NT2RM2001813 | 0.94 |
|    | NT2RM2001823 | F-NT2RM2001823 | 0.94 |
|    | NT2RM2001839 | F-NT2RM2001839 | 0.39 |
|    | NT2RM2001840 | F-NT2RM2001840 | 0.94 |
| 40 | NT2RM2001855 | F-NT2RM2001855 | 0.92 |
|    | NT2RM2001867 | F-NT2RM2001867 | 0.82 |
|    | NT2RM2001879 | F-NT2RM2001879 | 0.86 |
|    | NT2RM2001886 | F-NT2RM2001886 | 0.91 |
| 45 | NT2RM2001896 | F-NT2RM2001896 | 0.94 |
|    | NT2RM2001903 | F-NT2RM2001903 | 0.61 |
|    | NT2RM2001930 | F-NT2RM2001930 | 0.94 |
|    | NT2RM2001935 | F-NT2RM2001935 | 0.77 |
| 50 | NT2RM2001936 | F-NT2RM2001936 | 0.94 |
|    | NT2RM2001950 | F-NT2RM2001950 | 0.34 |
|    | NT2RM2001982 | F-NT2RM2001982 | 0.48 |
|    | NT2RM2001983 | F-NT2RM2001983 | 0.59 |
|    | NT2RM2001989 | F-NT2RM2001989 | 0.94 |
| 55 | NT2RM2001997 | F-NT2RM2001997 | 0.90 |

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|----|--------------|----------------|------|
|    | NT2RM2001998 | F-NT2RM2001998 | 0.72 |
|    | NT2RM2002004 | F-NT2RM2002004 | 0.46 |
| 5  | NT2RM2002014 | F-NT2RM2002014 | 0.32 |
|    | NT2RM2002030 | F-NT2RM2002030 | 0.54 |
|    | NT2RM2002049 | F-NT2RM2002049 | 0.59 |
|    | NT2RM2002055 | F-NT2RM2002055 | 0.94 |
| 10 | NT2RM2002088 | F-NT2RM2002088 | 0.47 |
|    | NT2RM2002091 | F-NT2RM2002091 | 0.78 |
|    | NT2RM2002100 | F-NT2RM2002100 | 0.87 |
|    | NT2RM2002109 | F-NT2RM2002109 | 0.86 |
|    | NT2RM2002128 | F-NT2RM2002128 | 0.42 |
| 15 | NT2RM2002142 | F-NT2RM2002142 | 0.94 |
|    | NT2RM2002145 | F-NT2RM2002145 | 0.94 |
|    | NT2RM2002178 | F-NT2RM2002178 | 0.44 |
|    | NT2RM2002580 | F-NT2RM2002580 | 0.94 |
| 20 | NT2RM4000024 | F-NT2RM4000024 | 0.76 |
|    | NT2RM4000027 | F-NT2RM4000027 | 0.40 |
|    | NT2RM4000030 | F-NT2RM4000030 | 0.66 |
|    | NT2RM4000061 | F-NT2RM4000061 | 0.33 |
| 25 | NT2RM4000104 | F-NT2RM4000104 | 0.93 |
|    | NT2RM4000139 | F-NT2RM4000139 | 0.87 |
|    | NT2RM4000155 | F-NT2RM4000155 | 0.51 |
|    | NT2RM4000156 | F-NT2RM4000156 | 0.39 |
| 30 | NT2RM4000167 | F-NT2RM4000167 | 0.50 |
|    | NT2RM4000169 | F-NT2RM4000169 | 0.44 |
|    | NT2RM4000191 | F-NT2RM4000191 | 0.94 |
|    | NT2RM4000197 | F-NT2RM4000197 | 0.41 |
|    | NT2RM4000199 | F-NT2RM4000199 | 0.76 |
| 35 | NT2RM4000202 | F-NT2RM4000202 | 0.47 |
|    | NT2RM4000210 | F-NT2RM4000210 | 0.44 |
|    | NT2RM4000215 | F-NT2RM4000215 | 0.94 |
|    | NT2RM4000229 | F-NT2RM4000229 | 0.93 |
| 40 | NT2RM4000233 | F-NT2RM4000233 | 0.74 |
|    | NT2RM4000251 | F-NT2RM4000251 | 0.48 |
|    | NT2RM4000290 | F-NT2RM4000290 | 0.94 |
|    | NT2RM4000324 | F-NT2RM4000324 | 0.32 |
| 45 | NT2RM4000344 | F-NT2RM4000344 | 0.94 |
|    | NT2RM4000349 | F-NT2RM4000349 | 0.78 |
|    | NT2RM4000354 | F-NT2RM4000354 | 0.36 |
|    | NT2RM4000356 | F-NT2RM4000356 | 0.58 |
| 50 | NT2RM4000386 | F-NT2RM4000386 | 0.90 |
|    | NT2RM4000395 | F-NT2RM4000395 | 0.47 |
|    | NT2RM4000421 | F-NT2RM4000421 | 0.46 |
|    | NT2RM4000433 | F-NT2RM4000433 | 0.48 |
| 55 | NT2RM4000457 | F-NT2RM4000457 | 0.75 |
|    | NT2RM4000471 | F-NT2RM4000471 | 0.92 |

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|----|--------------|----------------|------|
|    | NT2RM4000486 | F-NT2RM4000486 | 0.55 |
|    | NT2RM4000496 | F-NT2RM4000496 | 0.62 |
| 5  | NT2RM4000511 | F-NT2RM4000511 | 0.74 |
|    | NT2RM4000514 | F-NT2RM4000514 | 0.72 |
|    | NT2RM4000515 | F-NT2RM4000515 | 0.66 |
|    | NT2RM4000520 | F-NT2RM4000520 | 0.69 |
| 10 | NT2RM4000531 | F-NT2RM4000531 | 0.62 |
|    | NT2RM4000534 | F-NT2RM4000534 | 0.94 |
|    | NT2RM4000585 | F-NT2RM4000585 | 0.52 |
|    | NT2RM4000590 | F-NT2RM4000590 | 0.94 |
|    | NT2RM4000595 | F-NT2RM4000595 | 0.44 |
| 15 | NT2RM4000603 | F-NT2RM4000603 | 0.94 |
|    | NT2RM4000611 | F-NT2RM4000611 | 0.46 |
|    | NT2RM4000616 | F-NT2RM4000616 | 0.94 |
|    | NT2RM4000674 | F-NT2RM4000674 | 0.80 |
| 20 | NT2RM4000689 | F-NT2RM4000689 | 0.58 |
|    | NT2RM4000698 | F-NT2RM4000698 | 0.71 |
|    | NT2RM4000700 | F-NT2RM4000700 | 0.59 |
|    | NT2RM4000712 | F-NT2RM4000712 | 0.94 |
| 25 | NT2RM4000717 | F-NT2RM4000717 | 0.69 |
|    | NT2RM4000733 | F-NT2RM4000733 | 0.94 |
|    | NT2RM4000734 | F-NT2RM4000734 | 0.42 |
|    | NT2RM4000741 | F-NT2RM4000741 | 0.83 |
| 30 | NT2RM4000751 | F-NT2RM4000751 | 0.91 |
|    | NT2RM4000764 | F-NT2RM4000764 | 0.35 |
|    | NT2RM4000778 | F-NT2RM4000778 | 0.90 |
|    | NT2RM4000787 | F-NT2RM4000787 | 0.40 |
| 35 | NT2RM4000790 | F-NT2RM4000790 | 0.62 |
|    | NT2RM4000795 | F-NT2RM4000795 | 0.94 |
|    | NT2RM4000796 | F-NT2RM4000796 | 0.93 |
|    | NT2RM4000798 | F-NT2RM4000798 | 0.61 |
| 40 | NT2RM4000813 | F-NT2RM4000813 | 0.58 |
|    | NT2RM4000820 | F-NT2RM4000820 | 0.39 |
|    | NT2RM4000833 | F-NT2RM4000833 | 0.80 |
|    | NT2RM4000848 | F-NT2RM4000848 | 0.73 |
|    | NT2RM4000852 | F-NT2RM4000852 | 0.74 |
| 45 | NT2RM4000887 | F-NT2RM4000887 | 0.42 |
|    | NT2RM4000895 | F-NT2RM4000895 | 0.47 |
|    | NT2RM4000950 | F-NT2RM4000950 | 0.53 |
|    | NT2RM4000971 | F-NT2RM4000971 | 0.73 |
| 50 | NT2RM4000996 | F-NT2RM4000996 | 0.42 |
|    | NT2RM4001002 | F-NT2RM4001002 | 0.57 |
|    | NT2RM4001032 | F-NT2RM4001032 | 0.94 |
|    | NT2RM4001047 | F-NT2RM4001047 | 0.76 |
| 55 | NT2RM4001054 | F-NT2RM4001054 | 0.91 |
|    | NT2RM4001084 | F-NT2RM4001084 | 0.94 |

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|----|--------------|----------------|------|
|    | NT2RM4001092 | F-NT2RM4001092 | 0.94 |
|    | NT2RM4001116 | F-NT2RM4001116 | 0.36 |
|    | NT2RM4001140 | F-NT2RM4001140 | 0.82 |
| 5  | NT2RM4001151 | F-NT2RM4001151 | 0.94 |
|    | NT2RM4001155 | F-NT2RM4001155 | 0.94 |
|    | NT2RM4001187 | F-NT2RM4001187 | 0.61 |
|    | NT2RM4001191 | F-NT2RM4001191 | 0.77 |
| 10 | NT2RM4001200 | F-NT2RM4001200 | 0.72 |
|    | NT2RM4001203 | F-NT2RM4001203 | 0.60 |
|    | NT2RM4001204 | F-NT2RM4001204 | 0.89 |
|    | NT2RM4001217 | F-NT2RM4001217 | 0.93 |
| 15 | NT2RM4001256 | F-NT2RM4001256 | 0.89 |
|    | NT2RM4001258 | F-NT2RM4001258 | 0.94 |
|    | NT2RM4001309 | F-NT2RM4001309 | 0.88 |
|    | NT2RM4001316 | F-NT2RM4001316 | 0.38 |
| 20 | NT2RM4001320 | F-NT2RM4001320 | 0.33 |
|    | NT2RM4001340 | F-NT2RM4001340 | 0.83 |
|    | NT2RM4001344 | F-NT2RM4001344 | 0.94 |
|    | NT2RM4001347 | F-NT2RM4001347 | 0.88 |
| 25 | NT2RM4001371 | F-NT2RM4001371 | 0.61 |
|    | NT2RM4001382 | F-NT2RM4001382 | 0.93 |
|    | NT2RM4001384 | F-NT2RM4001384 | 0.32 |
|    | NT2RM4001410 | F-NT2RM4001410 | 0.94 |
| 30 | NT2RM4001411 | F-NT2RM4001411 | 0.47 |
|    | NT2RM4001412 | F-NT2RM4001412 | 0.85 |
|    | NT2RM4001444 | F-NT2RM4001444 | 0.94 |
|    | NT2RM4001454 | F-NT2RM4001454 | 0.72 |
|    | NT2RM4001455 | F-NT2RM4001455 | 0.39 |
| 35 | NT2RM4001483 | F-NT2RM4001483 | 0.76 |
|    | NT2RM4001489 | F-NT2RM4001489 | 0.94 |
|    | NT2RM4001522 | F-NT2RM4001522 | 0.88 |
|    | NT2RM4001565 | F-NT2RM4001565 | 0.78 |
| 40 | NT2RM4001566 | F-NT2RM4001566 | 0.87 |
|    | NT2RM4001569 | F-NT2RM4001569 | 0.70 |
|    | NT2RM4001582 | F-NT2RM4001582 | 0.76 |
|    | NT2RM4001592 | F-NT2RM4001592 | 0.31 |
| 45 | NT2RM4001594 | F-NT2RM4001594 | 0.86 |
|    | NT2RM4001597 | F-NT2RM4001597 | 0.91 |
|    | NT2RM4001611 | F-NT2RM4001611 | 0.91 |
|    | NT2RM4001629 | F-NT2RM4001629 | 0.72 |
| 50 | NT2RM4001650 | F-NT2RM4001650 | 0.37 |
|    | NT2RM4001662 | F-NT2RM4001662 | 0.70 |
|    | NT2RM4001666 | F-NT2RM4001666 | 0.37 |
|    | NT2RM4001682 | F-NT2RM4001682 | 0.91 |
|    | NT2RM4001710 | F-NT2RM4001710 | 0.45 |
| 55 | NT2RM4001714 | F-NT2RM4001714 | 0.94 |

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|----|--------------|----------------|------|
|    | NT2RM4001715 | F-NT2RM4001715 | 0.33 |
|    | NT2RM4001731 | F-NT2RM4001731 | 0.94 |
|    | NT2RM4001741 | F-NT2RM4001741 | 0.87 |
| 5  | NT2RM4001746 | F-NT2RM4001746 | 0.81 |
|    | NT2RM4001758 | F-NT2RM4001758 | 0.59 |
|    | NT2RM4001783 | F-NT2RM4001783 | 0.68 |
|    | NT2RM4001813 | F-NT2RM4001813 | 0.39 |
| 10 | NT2RM4001819 | F-NT2RM4001819 | 0.43 |
|    | NT2RM4001823 | F-NT2RM4001823 | 0.94 |
|    | NT2RM4001828 | F-NT2RM4001828 | 0.83 |
|    | NT2RM4001836 | F-NT2RM4001836 | 0.61 |
| 15 | NT2RM4001841 | F-NT2RM4001841 | 0.37 |
|    | NT2RM4001842 | F-NT2RM4001842 | 0.68 |
|    | NT2RM4001865 | F-NT2RM4001865 | 0.91 |
|    | NT2RM4001876 | F-NT2RM4001876 | 0.88 |
| 20 | NT2RM4001880 | F-NT2RM4001880 | 0.43 |
|    | NT2RM4001905 | F-NT2RM4001905 | 0.94 |
|    | NT2RM4001922 | F-NT2RM4001922 | 0.48 |
|    | NT2RM4001938 | F-NT2RM4001938 | 0.67 |
| 25 | NT2RM4001940 | F-NT2RM4001940 | 0.92 |
|    | NT2RM4001965 | F-NT2RM4001965 | 0.94 |
|    | NT2RM4001969 | F-NT2RM4001969 | 0.88 |
|    | NT2RM4001979 | F-NT2RM4001979 | 0.42 |
| 30 | NT2RM4001987 | F-NT2RM4001987 | 0.86 |
|    | NT2RM4002013 | F-NT2RM4002013 | 0.94 |
|    | NT2RM4002018 | F-NT2RM4002018 | 0.92 |
|    | NT2RM4002034 | F-NT2RM4002034 | 0.43 |
| 35 | NT2RM4002044 | F-NT2RM4002044 | 0.42 |
|    | NT2RM4002054 | F-NT2RM4002054 | 0.88 |
|    | NT2RM4002055 | F-NT2RM4002055 | 0.32 |
|    | NT2RM4002062 | F-NT2RM4002062 | 0.87 |
|    | NT2RM4002063 | F-NT2RM4002063 | 0.49 |
| 40 | NT2RM4002066 | F-NT2RM4002066 | 0.39 |
|    | NT2RM4002073 | F-NT2RM4002073 | 0.78 |
|    | NT2RM4002075 | F-NT2RM4002075 | 0.87 |
|    | NT2RM4002093 | F-NT2RM4002093 | 0.82 |
| 45 | NT2RM4002109 | F-NT2RM4002109 | 0.52 |
|    | NT2RM4002128 | F-NT2RM4002128 | 0.68 |
|    | NT2RM4002140 | F-NT2RM4002140 | 0.94 |
|    | NT2RM4002145 | F-NT2RM4002145 | 0.94 |
| 50 | NT2RM4002146 | F-NT2RM4002146 | 0.89 |
|    | NT2RM4002161 | F-NT2RM4002161 | 0.49 |
|    | NT2RM4002174 | F-NT2RM4002174 | 0.36 |
|    | NT2RM4002189 | F-NT2RM4002189 | 0.34 |
| 55 | NT2RM4002194 | F-NT2RM4002194 | 0.73 |
|    | NT2RM4002205 | F-NT2RM4002205 | 0.94 |

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|----|--------------|----------------|------|
|    | NT2RM4002213 | F-NT2RM4002213 | 0.52 |
|    | NT2RM4002226 | F-NT2RM4002226 | 0.48 |
| 5  | NT2RM4002251 | F-NT2RM4002251 | 0.94 |
|    | NT2RM4002256 | F-NT2RM4002256 | 0.93 |
|    | NT2RM4002266 | F-NT2RM4002266 | 0.73 |
|    | NT2RM4002294 | F-NT2RM4002294 | 0.86 |
| 10 | NT2RM4002301 | F-NT2RM4002301 | 0.40 |
|    | NT2RM4002323 | F-NT2RM4002323 | 0.81 |
|    | NT2RM4002339 | F-NT2RM4002339 | 0.32 |
|    | NT2RM4002344 | F-NT2RM4002344 | 0.87 |
| 15 | NT2RM4002373 | F-NT2RM4002373 | 0.41 |
|    | NT2RM4002374 | F-NT2RM4002374 | 0.33 |
|    | NT2RM4002398 | F-NT2RM4002398 | 0.94 |
|    | NT2RM4002409 | F-NT2RM4002409 | 0.82 |
| 20 | NT2RM4002446 | F-NT2RM4002446 | 0.61 |
|    | NT2RM4002452 | F-NT2RM4002452 | 0.47 |
|    | NT2RM4002457 | F-NT2RM4002457 | 0.92 |
|    | NT2RM4002460 | F-NT2RM4002460 | 0.61 |
|    | NT2RM4002482 | F-NT2RM4002482 | 0.94 |
| 25 | NT2RM4002493 | F-NT2RM4002493 | 0.39 |
|    | NT2RM4002527 | F-NT2RM4002527 | 0.64 |
|    | NT2RM4002534 | F-NT2RM4002534 | 0.76 |
|    | NT2RM4002558 | F-NT2RM4002558 | 0.62 |
| 30 | NT2RM4002565 | F-NT2RM4002565 | 0.54 |
|    | NT2RM4002571 | F-NT2RM4002571 | 0.90 |
|    | NT2RM4002593 | F-NT2RM4002593 | 0.91 |
|    | NT2RM4002594 | F-NT2RM4002594 | 0.70 |
| 35 | NT2RM4002623 | F-NT2RM4002623 | 0.81 |
|    | NT2RP1000018 | F-NT2RP1000018 | 0.31 |
|    | NT2RP1000035 | F-NT2RP1000035 | 0.49 |
|    | NT2RP1000040 | F-NT2RP1000040 | 0.45 |
| 40 | NT2RP1000063 | F-NT2RP1000063 | 0.90 |
|    | NT2RP1000086 | F-NT2RP1000086 | 0.89 |
|    | NT2RP1000101 | F-NT2RP1000101 | 0.76 |
|    | NT2RP1000111 | F-NT2RP1000111 | 0.94 |
|    | NT2RP1000112 | F-NT2RP1000112 | 0.45 |
| 45 | NT2RP1000124 | F-NT2RP1000124 | 0.94 |
|    | NT2RP1000130 | F-NT2RP1000130 | 0.69 |
|    | NT2RP1000163 | F-NT2RP1000163 | 0.90 |
|    | NT2RP1000170 | F-NT2RP1000170 | 0.94 |
| 50 | NT2RP1000174 | F-NT2RP1000174 | 0.74 |
|    | NT2RP1000191 | F-NT2RP1000191 | 0.76 |
|    | NT2RP1000202 | F-NT2RP1000202 | 0.60 |
|    | NT2RP1000243 | F-NT2RP1000243 | 0.81 |
| 55 | NT2RP1000259 | F-NT2RP1000259 | 0.79 |
|    | NT2RP1000272 | F-NT2RP1000272 | 0.94 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP1000324 | F-NT2RP1000324 | 0.32 |
|    | NT2RP1000326 | F-NT2RP1000326 | 0.94 |
| 5  | NT2RP1000333 | F-NT2RP1000333 | 0.94 |
|    | NT2RP1000348 | F-NT2RP1000348 | 0.94 |
|    | NT2RP1000357 | F-NT2RP1000357 | 0.87 |
|    | NT2RP1000358 | F-NT2RP1000358 | 0.79 |
| 10 | NT2RP1000363 | F-NT2RP1000363 | 0.40 |
|    | NT2RP1000376 | F-NT2RP1000376 | 0.61 |
|    | NT2RP1000409 | F-NT2RP1000409 | 0.85 |
|    | NT2RP1000413 | F-NT2RP1000413 | 0.42 |
|    | NT2RP1000416 | F-NT2RP1000416 | 0.68 |
| 15 | NT2RP1000418 | F-NT2RP1000418 | 0.88 |
|    | NT2RP1000439 | F-NT2RP1000439 | 0.69 |
|    | NT2RP1000443 | F-NT2RP1000443 | 0.59 |
|    | NT2RP1000460 | F-NT2RP1000460 | 0.86 |
| 20 | NT2RP1000470 | F-NT2RP1000470 | 0.56 |
|    | NT2RP1000478 | F-NT2RP1000478 | 0.87 |
|    | NT2RP1000481 | F-NT2RP1000481 | 0.58 |
|    | NT2RP1000493 | F-NT2RP1000493 | 0.34 |
| 25 | NT2RP1000513 | F-NT2RP1000513 | 0.89 |
|    | NT2RP1000522 | F-NT2RP1000522 | 0.34 |
|    | NT2RP1000547 | F-NT2RP1000547 | 0.89 |
|    | NT2RP1000574 | F-NT2RP1000574 | 0.74 |
| 30 | NT2RP1000577 | F-NT2RP1000577 | 0.53 |
|    | NT2RP1000581 | F-NT2RP1000581 | 0.66 |
|    | NT2RP1000609 | F-NT2RP1000609 | 0.90 |
|    | NT2RP1000629 | F-NT2RP1000629 | 0.94 |
| 35 | NT2RP1000630 | F-NT2RP1000630 | 0.93 |
|    | NT2RP1000677 | F-NT2RP1000677 | 0.94 |
|    | NT2RP1000688 | F-NT2RP1000688 | 0.94 |
|    | NT2RP1000695 | F-NT2RP1000695 | 0.89 |
| 40 | NT2RP1000701 | F-NT2RP1000701 | 0.89 |
|    | NT2RP1000721 | F-NT2RP1000721 | 0.91 |
|    | NT2RP1000730 | F-NT2RP1000730 | 0.94 |
|    | NT2RP1000733 | F-NT2RP1000733 | 0.90 |
|    | NT2RP1000738 | F-NT2RP1000738 | 0.64 |
| 45 | NT2RP1000746 | F-NT2RP1000746 | 0.92 |
|    | NT2RP1000767 | F-NT2RP1000767 | 0.82 |
|    | NT2RP1000782 | F-NT2RP1000782 | 0.94 |
|    | NT2RP1000796 | F-NT2RP1000796 | 0.33 |
| 50 | NT2RP1000825 | F-NT2RP1000825 | 0.74 |
|    | NT2RP1000833 | F-NT2RP1000833 | 0.94 |
|    | NT2RP1000834 | F-NT2RP1000834 | 0.88 |
|    | NT2RP1000836 | F-NT2RP1000836 | 0.59 |
| 55 | NT2RP1000846 | F-NT2RP1000846 | 0.46 |
|    | NT2RP1000851 | F-NT2RP1000851 | 0.82 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP1000856 | F-NT2RP1000856 | 0.94 |
|    | NT2RP1000860 | F-NT2RP1000860 | 0.60 |
| 5  | NT2RP1000902 | F-NT2RP1000902 | 0.42 |
|    | NT2RP1000915 | F-NT2RP1000915 | 0.90 |
|    | NT2RP1000916 | F-NT2RP1000916 | 0.67 |
|    | NT2RP1000943 | F-NT2RP1000943 | 0.77 |
| 10 | NT2RP1000944 | F-NT2RP1000944 | 0.94 |
|    | NT2RP1000947 | F-NT2RP1000947 | 0.38 |
|    | NT2RP1000954 | F-NT2RP1000954 | 0.59 |
|    | NT2RP1000958 | F-NT2RP1000958 | 0.59 |
|    | NT2RP1000959 | F-NT2RP1000959 | 0.74 |
| 15 | NT2RP1000966 | F-NT2RP1000966 | 0.93 |
|    | NT2RP1000980 | F-NT2RP1000980 | 0.31 |
|    | NT2RP1000988 | F-NT2RP1000988 | 0.53 |
|    | NT2RP1001011 | F-NT2RP1001011 | 0.65 |
| 20 | NT2RP1001013 | F-NT2RP1001013 | 0.34 |
|    | NT2RP1001014 | F-NT2RP1001014 | 0.94 |
|    | NT2RP1001033 | F-NT2RP1001033 | 0.40 |
|    | NT2RP1001073 | F-NT2RP1001073 | 0.74 |
| 25 | NT2RP1001079 | F-NT2RP1001079 | 0.48 |
|    | NT2RP1001080 | F-NT2RP1001080 | 0.91 |
|    | NT2RP1001113 | F-NT2RP1001113 | 0.94 |
|    | NT2RP1001173 | F-NT2RP1001173 | 0.57 |
| 30 | NT2RP1001177 | F-NT2RP1001177 | 0.75 |
|    | NT2RP1001185 | F-NT2RP1001185 | 0.94 |
|    | NT2RP1001199 | F-NT2RP1001199 | 0.42 |
|    | NT2RP1001247 | F-NT2RP1001247 | 0.67 |
| 35 | NT2RP1001248 | F-NT2RP1001248 | 0.89 |
|    | NT2RP1001253 | F-NT2RP1001253 | 0.94 |
|    | NT2RP1001286 | F-NT2RP1001286 | 0.59 |
|    | NT2RP1001294 | F-NT2RP1001294 | 0.81 |
| 40 | NT2RP1001302 | F-NT2RP1001302 | 0.86 |
|    | NT2RP1001310 | F-NT2RP1001310 | 0.91 |
|    | NT2RP1001311 | F-NT2RP1001311 | 0.87 |
|    | NT2RP1001313 | F-NT2RP1001313 | 0.91 |
|    | NT2RP1001361 | F-NT2RP1001361 | 0.83 |
| 45 | NT2RP1001385 | F-NT2RP1001385 | 0.36 |
|    | NT2RP1001395 | F-NT2RP1001395 | 0.84 |
|    | NT2RP1001410 | F-NT2RP1001410 | 0.72 |
|    | NT2RP1001424 | F-NT2RP1001424 | 0.81 |
| 50 | NT2RP1001432 | F-NT2RP1001432 | 0.81 |
|    | NT2RP1001449 | F-NT2RP1001449 | 0.77 |
|    | NT2RP1001457 | F-NT2RP1001457 | 0.92 |
|    | NT2RP1001466 | F-NT2RP1001466 | 0.44 |
| 55 | NT2RP1001475 | F-NT2RP1001475 | 0.53 |
|    | NT2RP1001482 | F-NT2RP1001482 | 0.34 |



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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP1001494 | F-NT2RP1001494 | 0. 93 |
|    | NT2RP1001543 | F-NT2RP1001543 | 0. 94 |
| 5  | NT2RP1001546 | F-NT2RP1001546 | 0. 94 |
|    | NT2RP1001569 | F-NT2RP1001569 | 0. 93 |
|    | NT2RP1001616 | F-NT2RP1001616 | 0. 46 |
|    | NT2RP1001665 | F-NT2RP1001665 | 0. 94 |
| 10 | NT2RP2000001 | F-NT2RP2000001 | 0. 94 |
|    | NT2RP2000006 | F-NT2RP2000006 | 0. 74 |
|    | NT2RP2000007 | F-NT2RP2000007 | 0. 94 |
|    | NT2RP2000008 | F-NT2RP2000008 | 0. 83 |
|    | NT2RP2000032 | F-NT2RP2000032 | 0. 94 |
| 15 | NT2RP2000040 | F-NT2RP2000040 | 0. 92 |
|    | NT2RP2000045 | F-NT2RP2000045 | 0. 94 |
|    | NT2RP2000054 | F-NT2RP2000054 | 0. 53 |
|    | NT2RP2000056 | F-NT2RP2000056 | 0. 42 |
| 20 | NT2RP2000067 | F-NT2RP2000067 | 0. 88 |
|    | NT2RP2000070 | F-NT2RP2000070 | 0. 48 |
|    | NT2RP2000079 | F-NT2RP2000079 | 0. 85 |
|    | NT2RP2000088 | F-NT2RP2000088 | 0. 94 |
| 25 | NT2RP2000091 | F-NT2RP2000091 | 0. 79 |
|    | NT2RP2000097 | F-NT2RP2000097 | 0. 66 |
|    | NT2RP2000114 | F-NT2RP2000114 | 0. 86 |
|    | NT2RP2000120 | F-NT2RP2000120 | 0. 48 |
| 30 | NT2RP2000126 | F-NT2RP2000126 | 0. 77 |
|    | NT2RP2000133 | F-NT2RP2000133 | 0. 64 |
|    | NT2RP2000147 | F-NT2RP2000147 | 0. 94 |
|    | NT2RP2000153 | F-NT2RP2000153 | 0. 87 |
| 35 | NT2RP2000157 | F-NT2RP2000157 | 0. 48 |
|    | NT2RP2000161 | F-NT2RP2000161 | 0. 79 |
|    | NT2RP2000173 | F-NT2RP2000173 | 0. 75 |
|    | NT2RP2000175 | F-NT2RP2000175 | 0. 79 |
| 40 | NT2RP2000195 | F-NT2RP2000195 | 0. 91 |
|    | NT2RP2000205 | F-NT2RP2000205 | 0. 94 |
|    | NT2RP2000208 | F-NT2RP2000208 | 0. 84 |
|    | NT2RP2000224 | F-NT2RP2000224 | 0. 52 |
| 45 | NT2RP2000232 | F-NT2RP2000232 | 0. 33 |
|    | NT2RP2000233 | F-NT2RP2000233 | 0. 57 |
|    | NT2RP2000239 | F-NT2RP2000239 | 0. 52 |
|    | NT2RP2000248 | F-NT2RP2000248 | 0. 36 |
|    | NT2RP2000274 | F-NT2RP2000274 | 0. 55 |
| 50 | NT2RP2000283 | F-NT2RP2000283 | 0. 61 |
|    | NT2RP2000288 | F-NT2RP2000288 | 0. 31 |
|    | NT2RP2000297 | F-NT2RP2000297 | 0. 78 |
|    | NT2RP2000298 | F-NT2RP2000298 | 0. 94 |
| 55 | NT2RP2000310 | F-NT2RP2000310 | 0. 52 |
|    | NT2RP2000328 | F-NT2RP2000328 | 0. 75 |

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|    |              |                 |       |
|----|--------------|-----------------|-------|
|    | NT2RP2000329 | F-NT2RP2000329  | 0. 94 |
|    | NT2RP2000346 | F-NT2RP2000346  | 0. 62 |
| 5  | NT2RP2000369 | F-NT2RP2000369  | 0. 87 |
|    | NT2RP2000412 | F-NT2RP2000412  | 0. 75 |
|    | NT2RP2000414 | F-NT2RP2000414  | 0. 79 |
|    | NT2RP2000422 | F-NT2RP2000422  | 0. 46 |
| 10 | NT2RP2000438 | F-NT2RP2000438  | 0. 94 |
|    | NT2RP2000448 | F-NT2RP2000448  | 0. 94 |
|    | NT2RP2000503 | F-NT2RP2000503  | 0. 94 |
|    | NT2RP2000510 | F-NT2RP2000510  | 0. 87 |
|    | NT2RP2000516 | F-NT2RP2000516  | 0. 42 |
| 15 | NT2RP2000617 | F-NT2RP2000617  | 0. 94 |
|    | NT2RP2000634 | F-NT2RP2000634  | 0. 74 |
|    | NT2RP2000656 | F-NT2RP2000656, | 0. 68 |
|    | NT2RP2000658 | F-NT2RP2000658  | 0. 55 |
| 20 | NT2RP2000668 | F-NT2RP2000668  | 0. 81 |
|    | NT2RP2000704 | F-NT2RP2000704  | 0. 88 |
|    | NT2RP2000710 | F-NT2RP2000710  | 0. 58 |
|    | NT2RP2000764 | F-NT2RP2000764  | 0. 59 |
| 25 | NT2RP2000809 | F-NT2RP2000809  | 0. 51 |
|    | NT2RP2000812 | F-NT2RP2000812  | 0. 37 |
|    | NT2RP2000814 | F-NT2RP2000814  | 0. 66 |
|    | NT2RP2000816 | F-NT2RP2000816  | 0. 50 |
| 30 | NT2RP2000819 | F-NT2RP2000819  | 0. 35 |
|    | NT2RP2000841 | F-NT2RP2000841  | 0. 93 |
|    | NT2RP2000845 | F-NT2RP2000845  | 0. 78 |
|    | NT2RP2000863 | F-NT2RP2000863  | 0. 41 |
| 35 | NT2RP2000880 | F-NT2RP2000880  | 0. 79 |
|    | NT2RP2000892 | F-NT2RP2000892  | 0. 94 |
|    | NT2RP2000931 | F-NT2RP2000931  | 0. 89 |
|    | NT2RP2000932 | F-NT2RP2000932  | 0. 94 |
|    | NT2RP2000938 | F-NT2RP2000938  | 0. 90 |
| 40 | NT2RP2000943 | F-NT2RP2000943  | 0. 61 |
|    | NT2RP2000965 | F-NT2RP2000965  | 0. 80 |
|    | NT2RP2000985 | F-NT2RP2000985  | 0. 94 |
|    | NT2RP2001036 | F-NT2RP2001036  | 0. 86 |
| 45 | NT2RP2001044 | F-NT2RP2001044  | 0. 93 |
|    | NT2RP2001056 | F-NT2RP2001056  | 0. 77 |
|    | NT2RP2001065 | F-NT2RP2001065  | 0. 73 |
|    | NT2RP2001070 | F-NT2RP2001070  | 0. 91 |
| 50 | NT2RP2001081 | F-NT2RP2001081  | 0. 94 |
|    | NT2RP2001094 | F-NT2RP2001094  | 0. 93 |
|    | NT2RP2001119 | F-NT2RP2001119  | 0. 31 |
|    | NT2RP2001127 | F-NT2RP2001127  | 0. 41 |
| 55 | NT2RP2001137 | F-NT2RP2001137  | 0. 93 |
|    | NT2RP2001168 | F-NT2RP2001168  | 0. 71 |

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|----|--------------|----------------|------|
|    | NT2RP2001173 | F-NT2RP2001173 | 0.94 |
|    | NT2RP2001174 | F-NT2RP2001174 | 0.71 |
| 5  | NT2RP2001218 | F-NT2RP2001218 | 0.76 |
|    | NT2RP2001233 | F-NT2RP2001233 | 0.31 |
|    | NT2RP2001245 | F-NT2RP2001245 | 0.33 |
|    | NT2RP2001268 | F-NT2RP2001268 | 0.61 |
| 10 | NT2RP2001327 | F-NT2RP2001327 | 0.86 |
|    | NT2RP2001328 | F-NT2RP2001328 | 0.94 |
|    | NT2RP2001366 | F-NT2RP2001366 | 0.52 |
|    | NT2RP2001378 | F-NT2RP2001378 | 0.64 |
| 15 | NT2RP2001381 | F-NT2RP2001381 | 0.80 |
|    | NT2RP2001392 | F-NT2RP2001392 | 0.69 |
|    | NT2RP2001394 | F-NT2RP2001394 | 0.38 |
|    | NT2RP2001397 | F-NT2RP2001397 | 0.79 |
| 20 | NT2RP2001420 | F-NT2RP2001420 | 0.88 |
|    | NT2RP2001427 | F-NT2RP2001427 | 0.73 |
|    | NT2RP2001436 | F-NT2RP2001436 | 0.32 |
|    | NT2RP2001440 | F-NT2RP2001440 | 0.94 |
|    | NT2RP2001450 | F-NT2RP2001450 | 0.38 |
| 25 | NT2RP2001511 | F-NT2RP2001511 | 0.53 |
|    | NT2RP2001520 | F-NT2RP2001520 | 0.88 |
|    | NT2RP2001536 | F-NT2RP2001536 | 0.64 |
|    | NT2RP2001560 | F-NT2RP2001560 | 0.79 |
| 30 | NT2RP2001576 | F-NT2RP2001576 | 0.62 |
|    | NT2RP2001581 | F-NT2RP2001581 | 0.48 |
|    | NT2RP2001597 | F-NT2RP2001597 | 0.94 |
|    | NT2RP2001601 | F-NT2RP2001601 | 0.33 |
| 35 | NT2RP2001613 | F-NT2RP2001613 | 0.41 |
|    | NT2RP2001628 | F-NT2RP2001628 | 0.79 |
|    | NT2RP2001634 | F-NT2RP2001634 | 0.87 |
|    | NT2RP2001660 | F-NT2RP2001660 | 0.86 |
| 40 | NT2RP2001675 | F-NT2RP2001675 | 0.90 |
|    | NT2RP2001721 | F-NT2RP2001721 | 0.32 |
|    | NT2RP2001748 | F-NT2RP2001748 | 0.32 |
|    | NT2RP2001839 | F-NT2RP2001839 | 0.83 |
| 45 | NT2RP2001861 | F-NT2RP2001861 | 0.33 |
|    | NT2RP2001876 | F-NT2RP2001876 | 0.94 |
|    | NT2RP2001883 | F-NT2RP2001883 | 0.90 |
|    | NT2RP2001898 | F-NT2RP2001898 | 0.94 |
| 50 | NT2RP2001900 | F-NT2RP2001900 | 0.93 |
|    | NT2RP2001907 | F-NT2RP2001907 | 0.94 |
|    | NT2RP2001946 | F-NT2RP2001946 | 0.63 |
|    | NT2RP2001947 | F-NT2RP2001947 | 0.75 |
|    | NT2RP2001969 | F-NT2RP2001969 | 0.94 |
| 55 | NT2RP2001976 | F-NT2RP2001976 | 0.48 |
|    | NT2RP2001985 | F-NT2RP2001985 | 0.44 |

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|----|--------------|----------------|------|
|    | NT2RP2001991 | F-NT2RP2001991 | 0.39 |
|    | NT2RP2002025 | F-NT2RP2002025 | 0.94 |
| 5  | NT2RP2002033 | F-NT2RP2002033 | 0.40 |
|    | NT2RP2002046 | F-NT2RP2002046 | 0.56 |
|    | NT2RP2002058 | F-NT2RP2002058 | 0.64 |
|    | NT2RP2002076 | F-NT2RP2002076 | 0.40 |
| 10 | NT2RP2002078 | F-NT2RP2002078 | 0.81 |
|    | NT2RP2002079 | F-NT2RP2002079 | 0.82 |
|    | NT2RP2002099 | F-NT2RP2002099 | 0.92 |
|    | NT2RP2002154 | F-NT2RP2002154 | 0.44 |
| 15 | NT2RP2002185 | F-NT2RP2002185 | 0.94 |
|    | NT2RP2002193 | F-NT2RP2002193 | 0.48 |
|    | NT2RP2002208 | F-NT2RP2002208 | 0.49 |
|    | NT2RP2002231 | F-NT2RP2002231 | 0.61 |
|    | NT2RP2002235 | F-NT2RP2002235 | 0.87 |
| 20 | NT2RP2002252 | F-NT2RP2002252 | 0.51 |
|    | NT2RP2002270 | F-NT2RP2002270 | 0.78 |
|    | NT2RP2002292 | F-NT2RP2002292 | 0.94 |
|    | NT2RP2002312 | F-NT2RP2002312 | 0.33 |
| 25 | NT2RP2002325 | F-NT2RP2002325 | 0.53 |
|    | NT2RP2002333 | F-NT2RP2002333 | 0.60 |
|    | NT2RP2002373 | F-NT2RP2002373 | 0.91 |
|    | NT2RP2002385 | F-NT2RP2002385 | 0.94 |
| 30 | NT2RP2002408 | F-NT2RP2002408 | 0.44 |
|    | NT2RP2002426 | F-NT2RP2002426 | 0.54 |
|    | NT2RP2002442 | F-NT2RP2002442 | 0.37 |
|    | NT2RP2002464 | F-NT2RP2002464 | 0.79 |
| 35 | NT2RP2002479 | F-NT2RP2002479 | 0.92 |
|    | NT2RP2002498 | F-NT2RP2002498 | 0.94 |
|    | NT2RP2002503 | F-NT2RP2002503 | 0.90 |
|    | NT2RP2002520 | F-NT2RP2002520 | 0.37 |
| 40 | NT2RP2002537 | F-NT2RP2002537 | 0.42 |
|    | NT2RP2002549 | F-NT2RP2002549 | 0.75 |
|    | NT2RP2002595 | F-NT2RP2002595 | 0.90 |
|    | NT2RP2002609 | F-NT2RP2002609 | 0.33 |
|    | NT2RP2002618 | F-NT2RP2002618 | 0.52 |
| 45 | NT2RP2002621 | F-NT2RP2002621 | 0.67 |
|    | NT2RP2002672 | F-NT2RP2002672 | 0.43 |
|    | NT2RP2002701 | F-NT2RP2002701 | 0.69 |
|    | NT2RP2002706 | F-NT2RP2002706 | 0.51 |
| 50 | NT2RP2002710 | F-NT2RP2002710 | 0.94 |
|    | NT2RP2002769 | F-NT2RP2002769 | 0.42 |
|    | NT2RP2002800 | F-NT2RP2002800 | 0.47 |
|    | NT2RP2002862 | F-NT2RP2002862 | 0.88 |
| 55 | NT2RP2002880 | F-NT2RP2002880 | 0.78 |
|    | NT2RP2002891 | F-NT2RP2002891 | 0.69 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP2002925 | F-NT2RP2002925 | 0.65 |
|    | NT2RP2002928 | F-NT2RP2002928 | 0.47 |
|    | NT2RP2002929 | F-NT2RP2002929 | 0.94 |
| 5  | NT2RP2002939 | F-NT2RP2002939 | 0.94 |
|    | NT2RP2002954 | F-NT2RP2002954 | 0.94 |
|    | NT2RP2002959 | F-NT2RP2002959 | 0.45 |
|    | NT2RP2002979 | F-NT2RP2002979 | 0.51 |
| 10 | NT2RP2002980 | F-NT2RP2002980 | 0.38 |
|    | NT2RP2002986 | F-NT2RP2002986 | 0.34 |
|    | NT2RP2002993 | F-NT2RP2002993 | 0.94 |
|    | NT2RP2003034 | F-NT2RP2003034 | 0.34 |
| 15 | NT2RP2003099 | F-NT2RP2003099 | 0.46 |
|    | NT2RP2003108 | F-NT2RP2003108 | 0.67 |
|    | NT2RP2003117 | F-NT2RP2003117 | 0.57 |
|    | NT2RP2003121 | F-NT2RP2003121 | 0.94 |
| 20 | NT2RP2003125 | F-NT2RP2003125 | 0.94 |
|    | NT2RP2003137 | F-NT2RP2003137 | 0.60 |
|    | NT2RP2003157 | F-NT2RP2003157 | 0.94 |
|    | NT2RP2003158 | F-NT2RP2003158 | 0.75 |
| 25 | NT2RP2003165 | F-NT2RP2003165 | 0.90 |
|    | NT2RP2003177 | F-NT2RP2003177 | 0.85 |
|    | NT2RP2003194 | F-NT2RP2003194 | 0.94 |
|    | NT2RP2003228 | F-NT2RP2003228 | 0.57 |
| 30 | NT2RP2003243 | F-NT2RP2003243 | 0.94 |
|    | NT2RP2003265 | F-NT2RP2003265 | 0.68 |
|    | NT2RP2003272 | F-NT2RP2003272 | 0.94 |
|    | NT2RP2003277 | F-NT2RP2003277 | 0.73 |
|    | NT2RP2003280 | F-NT2RP2003280 | 0.94 |
| 35 | NT2RP2003286 | F-NT2RP2003286 | 0.44 |
|    | NT2RP2003293 | F-NT2RP2003293 | 0.42 |
|    | NT2RP2003295 | F-NT2RP2003295 | 0.89 |
|    | NT2RP2003297 | F-NT2RP2003297 | 0.94 |
| 40 | NT2RP2003307 | F-NT2RP2003307 | 0.79 |
|    | NT2RP2003308 | F-NT2RP2003308 | 0.49 |
|    | NT2RP2003329 | F-NT2RP2003329 | 0.33 |
|    | NT2RP2003347 | F-NT2RP2003347 | 0.79 |
| 45 | NT2RP2003367 | F-NT2RP2003367 | 0.94 |
|    | NT2RP2003391 | F-NT2RP2003391 | 0.90 |
|    | NT2RP2003393 | F-NT2RP2003393 | 0.94 |
|    | NT2RP2003401 | F-NT2RP2003401 | 0.80 |
| 50 | NT2RP2003433 | F-NT2RP2003433 | 0.40 |
|    | NT2RP2003445 | F-NT2RP2003445 | 0.94 |
|    | NT2RP2003446 | F-NT2RP2003446 | 0.40 |
|    | NT2RP2003466 | F-NT2RP2003466 | 0.58 |
|    | NT2RP2003480 | F-NT2RP2003480 | 0.59 |
| 55 | NT2RP2003506 | F-NT2RP2003506 | 0.94 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP2003511 | F-NT2RP2003511 | 0. 31 |
|    | NT2RP2003513 | F-NT2RP2003513 | 0. 67 |
| 5  | NT2RP2003533 | F-NT2RP2003533 | 0. 57 |
|    | NT2RP2003543 | F-NT2RP2003543 | 0. 94 |
|    | NT2RP2003564 | F-NT2RP2003564 | 0. 88 |
|    | NT2RP2003567 | F-NT2RP2003567 | 0. 69 |
| 10 | NT2RP2003581 | F-NT2RP2003581 | 0. 40 |
|    | NT2RP2003596 | F-NT2RP2003596 | 0. 83 |
|    | NT2RP2003604 | F-NT2RP2003604 | 0. 87 |
|    | NT2RP2003629 | F-NT2RP2003629 | 0. 87 |
|    | NT2RP2003643 | F-NT2RP2003643 | 0. 94 |
| 15 | NT2RP2003687 | F-NT2RP2003687 | 0. 31 |
|    | NT2RP2003691 | F-NT2RP2003691 | 0. 34 |
|    | NT2RP2003702 | F-NT2RP2003702 | 0. 80 |
|    | NT2RP2003713 | F-NT2RP2003713 | 0. 53 |
| 20 | NT2RP2003714 | F-NT2RP2003714 | 0. 61 |
|    | NT2RP2003737 | F-NT2RP2003737 | 0. 88 |
|    | NT2RP2003751 | F-NT2RP2003751 | 0. 36 |
|    | NT2RP2003760 | F-NT2RP2003760 | 0. 62 |
| 25 | NT2RP2003764 | F-NT2RP2003764 | 0. 94 |
|    | NT2RP2003769 | F-NT2RP2003769 | 0. 69 |
|    | NT2RP2003777 | F-NT2RP2003777 | 0. 93 |
|    | NT2RP2003781 | F-NT2RP2003781 | 0. 37 |
| 30 | NT2RP2003793 | F-NT2RP2003793 | 0. 92 |
|    | NT2RP2003825 | F-NT2RP2003825 | 0. 49 |
|    | NT2RP2003840 | F-NT2RP2003840 | 0. 88 |
|    | NT2RP2003857 | F-NT2RP2003857 | 0. 34 |
| 35 | NT2RP2003952 | F-NT2RP2003952 | 0. 89 |
|    | NT2RP2003976 | F-NT2RP2003976 | 0. 33 |
|    | NT2RP2003981 | F-NT2RP2003981 | 0. 64 |
|    | NT2RP2003984 | F-NT2RP2003984 | 0. 41 |
|    | NT2RP2003986 | F-NT2RP2003986 | 0. 32 |
| 40 | NT2RP2004013 | F-NT2RP2004013 | 0. 48 |
|    | NT2RP2004041 | F-NT2RP2004041 | 0. 78 |
|    | NT2RP2004042 | F-NT2RP2004042 | 0. 66 |
|    | NT2RP2004066 | F-NT2RP2004066 | 0. 56 |
| 45 | NT2RP2004081 | F-NT2RP2004081 | 0. 94 |
|    | NT2RP2004098 | F-NT2RP2004098 | 0. 39 |
|    | NT2RP2004124 | F-NT2RP2004124 | 0. 75 |
|    | NT2RP2004152 | F-NT2RP2004152 | 0. 54 |
| 50 | NT2RP2004165 | F-NT2RP2004165 | 0. 68 |
|    | NT2RP2004187 | F-NT2RP2004187 | 0. 92 |
|    | NT2RP2004194 | F-NT2RP2004194 | 0. 90 |
|    | NT2RP2004196 | F-NT2RP2004196 | 0. 94 |
| 55 | NT2RP2004226 | F-NT2RP2004226 | 0. 80 |
|    | NT2RP2004239 | F-NT2RP2004239 | 0. 63 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP2004240 | F-NT2RP2004240 | 0. 86 |
|    | NT2RP2004242 | F-NT2RP2004242 | 0. 94 |
| 5  | NT2RP2004245 | F-NT2RP2004245 | 0. 92 |
|    | NT2RP2004316 | F-NT2RP2004316 | 0. 33 |
|    | NT2RP2004364 | F-NT2RP2004364 | 0. 75 |
|    | NT2RP2004365 | F-NT2RP2004365 | 0. 43 |
| 10 | NT2RP2004366 | F-NT2RP2004366 | 0. 32 |
|    | NT2RP2004373 | F-NT2RP2004373 | 0. 60 |
|    | NT2RP2004389 | F-NT2RP2004389 | 0. 94 |
|    | NT2RP2004392 | F-NT2RP2004392 | 0. 93 |
|    | NT2RP2004399 | F-NT2RP2004399 | 0. 36 |
| 15 | NT2RP2004463 | F-NT2RP2004463 | 0. 43 |
|    | NT2RP2004476 | F-NT2RP2004476 | 0. 80 |
|    | NT2RP2004538 | F-NT2RP2004538 | 0. 94 |
|    | NT2RP2004551 | F-NT2RP2004551 | 0. 47 |
| 20 | NT2RP2004568 | F-NT2RP2004568 | 0. 73 |
|    | NT2RP2004594 | F-NT2RP2004594 | 0. 64 |
|    | NT2RP2004600 | F-NT2RP2004600 | 0. 53 |
|    | NT2RP2004602 | F-NT2RP2004602 | 0. 33 |
| 25 | NT2RP2004614 | F-NT2RP2004614 | 0. 34 |
|    | NT2RP2004655 | F-NT2RP2004655 | 0. 77 |
|    | NT2RP2004664 | F-NT2RP2004664 | 0. 94 |
|    | NT2RP2004689 | F-NT2RP2004689 | 0. 83 |
| 30 | NT2RP2004710 | F-NT2RP2004710 | 0. 94 |
|    | NT2RP2004743 | F-NT2RP2004743 | 0. 32 |
|    | NT2RP2004768 | F-NT2RP2004768 | 0. 53 |
|    | NT2RP2004791 | F-NT2RP2004791 | 0. 64 |
|    | NT2RP2004799 | F-NT2RP2004799 | 0. 42 |
| 35 | NT2RP2004802 | F-NT2RP2004802 | 0. 88 |
|    | NT2RP2004816 | F-NT2RP2004816 | 0. 78 |
|    | NT2RP2004841 | F-NT2RP2004841 | 0. 61 |
|    | NT2RP2004861 | F-NT2RP2004861 | 0. 32 |
| 40 | NT2RP2004897 | F-NT2RP2004897 | 0. 67 |
|    | NT2RP2004933 | F-NT2RP2004933 | 0. 94 |
|    | NT2RP2004936 | F-NT2RP2004936 | 0. 53 |
|    | NT2RP2004959 | F-NT2RP2004959 | 0. 78 |
| 45 | NT2RP2004978 | F-NT2RP2004978 | 0. 86 |
|    | NT2RP2004985 | F-NT2RP2004985 | 0. 42 |
|    | NT2RP2004999 | F-NT2RP2004999 | 0. 55 |
|    | NT2RP2005000 | F-NT2RP2005000 | 0. 40 |
| 50 | NT2RP2005001 | F-NT2RP2005001 | 0. 94 |
|    | NT2RP2005003 | F-NT2RP2005003 | 0. 44 |
|    | NT2RP2005012 | F-NT2RP2005012 | 0. 73 |
|    | NT2RP2005018 | F-NT2RP2005018 | 0. 43 |
|    | NT2RP2005022 | F-NT2RP2005022 | 0. 34 |
| 55 | NT2RP2005037 | F-NT2RP2005037 | 0. 94 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP2005038 | F-NT2RP2005038 | 0.56 |
|    | NT2RP2005116 | F-NT2RP2005116 | 0.94 |
|    | NT2RP2005126 | F-NT2RP2005126 | 0.69 |
| 5  | NT2RP2005139 | F-NT2RP2005139 | 0.94 |
|    | NT2RP2005140 | F-NT2RP2005140 | 0.32 |
|    | NT2RP2005144 | F-NT2RP2005144 | 0.39 |
|    | NT2RP2005147 | F-NT2RP2005147 | 0.32 |
| 10 | NT2RP2005159 | F-NT2RP2005159 | 0.52 |
|    | NT2RP2005162 | F-NT2RP2005162 | 0.86 |
|    | NT2RP2005168 | F-NT2RP2005168 | 0.53 |
|    | NT2RP2005204 | F-NT2RP2005204 | 0.94 |
| 15 | NT2RP2005227 | F-NT2RP2005227 | 0.53 |
|    | NT2RP2005239 | F-NT2RP2005239 | 0.91 |
|    | NT2RP2005270 | F-NT2RP2005270 | 0.72 |
|    | NT2RP2005276 | F-NT2RP2005276 | 0.41 |
| 20 | NT2RP2005287 | F-NT2RP2005287 | 0.44 |
|    | NT2RP2005288 | F-NT2RP2005288 | 0.82 |
|    | NT2RP2005315 | F-NT2RP2005315 | 0.79 |
|    | NT2RP2005358 | F-NT2RP2005358 | 0.94 |
| 25 | NT2RP2005393 | F-NT2RP2005393 | 0.41 |
|    | NT2RP2005436 | F-NT2RP2005436 | 0.45 |
|    | NT2RP2005441 | F-NT2RP2005441 | 0.88 |
|    | NT2RP2005453 | F-NT2RP2005453 | 0.59 |
| 30 | NT2RP2005457 | F-NT2RP2005457 | 0.56 |
|    | NT2RP2005464 | F-NT2RP2005464 | 0.72 |
|    | NT2RP2005465 | F-NT2RP2005465 | 0.40 |
|    | NT2RP2005472 | F-NT2RP2005472 | 0.42 |
|    | NT2RP2005490 | F-NT2RP2005490 | 0.52 |
| 35 | NT2RP2005495 | F-NT2RP2005495 | 0.94 |
|    | NT2RP2005496 | F-NT2RP2005496 | 0.52 |
|    | NT2RP2005498 | F-NT2RP2005498 | 0.74 |
|    | NT2RP2005509 | F-NT2RP2005509 | 0.55 |
| 40 | NT2RP2005520 | F-NT2RP2005520 | 0.54 |
|    | NT2RP2005525 | F-NT2RP2005525 | 0.41 |
|    | NT2RP2005539 | F-NT2RP2005539 | 0.94 |
|    | NT2RP2005540 | F-NT2RP2005540 | 0.32 |
| 45 | NT2RP2005549 | F-NT2RP2005549 | 0.79 |
|    | NT2RP2005555 | F-NT2RP2005555 | 0.63 |
|    | NT2RP2005557 | F-NT2RP2005557 | 0.79 |
|    | NT2RP2005600 | F-NT2RP2005600 | 0.76 |
| 50 | NT2RP2005605 | F-NT2RP2005605 | 0.56 |
|    | NT2RP2005620 | F-NT2RP2005620 | 0.66 |
|    | NT2RP2005622 | F-NT2RP2005622 | 0.37 |
|    | NT2RP2005635 | F-NT2RP2005635 | 0.87 |
|    | NT2RP2005637 | F-NT2RP2005637 | 0.94 |
| 55 | NT2RP2005640 | F-NT2RP2005640 | 0.87 |



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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP2005654 | F-NT2RP2005654 | 0.94 |
|    | NT2RP2005669 | F-NT2RP2005669 | 0.94 |
| 5  | NT2RP2005675 | F-NT2RP2005675 | 0.72 |
|    | NT2RP2005683 | F-NT2RP2005683 | 0.34 |
|    | NT2RP2005690 | F-NT2RP2005690 | 0.54 |
|    | NT2RP2005712 | F-NT2RP2005712 | 0.93 |
| 10 | NT2RP2005722 | F-NT2RP2005722 | 0.50 |
|    | NT2RP2005723 | F-NT2RP2005723 | 0.45 |
|    | NT2RP2005732 | F-NT2RP2005732 | 0.54 |
|    | NT2RP2005748 | F-NT2RP2005748 | 0.76 |
|    | NT2RP2005752 | F-NT2RP2005752 | 0.47 |
| 15 | NT2RP2005763 | F-NT2RP2005763 | 0.87 |
|    | NT2RP2005767 | F-NT2RP2005767 | 0.58 |
|    | NT2RP2005773 | F-NT2RP2005773 | 0.49 |
|    | NT2RP2005775 | F-NT2RP2005775 | 0.34 |
| 20 | NT2RP2005781 | F-NT2RP2005781 | 0.81 |
|    | NT2RP2005784 | F-NT2RP2005784 | 0.94 |
|    | NT2RP2005804 | F-NT2RP2005804 | 0.94 |
|    | NT2RP2005812 | F-NT2RP2005812 | 0.90 |
| 25 | NT2RP2005835 | F-NT2RP2005835 | 0.94 |
|    | NT2RP2005853 | F-NT2RP2005853 | 0.77 |
|    | NT2RP2005859 | F-NT2RP2005859 | 0.68 |
|    | NT2RP2005868 | F-NT2RP2005868 | 0.76 |
| 30 | NT2RP2005886 | F-NT2RP2005886 | 0.62 |
|    | NT2RP2005890 | F-NT2RP2005890 | 0.79 |
|    | NT2RP2005901 | F-NT2RP2005901 | 0.94 |
|    | NT2RP2005933 | F-NT2RP2005933 | 0.55 |
| 35 | NT2RP2006023 | F-NT2RP2006023 | 0.47 |
|    | NT2RP2006038 | F-NT2RP2006038 | 0.73 |
|    | NT2RP2006043 | F-NT2RP2006043 | 0.50 |
|    | NT2RP2006052 | F-NT2RP2006052 | 0.74 |
|    | NT2RP2006069 | F-NT2RP2006069 | 0.85 |
| 40 | NT2RP2006071 | F-NT2RP2006071 | 0.94 |
|    | NT2RP2006100 | F-NT2RP2006100 | 0.42 |
|    | NT2RP2006106 | F-NT2RP2006106 | 0.94 |
|    | NT2RP2006141 | F-NT2RP2006141 | 0.92 |
| 45 | NT2RP2006186 | F-NT2RP2006186 | 0.94 |
|    | NT2RP2006196 | F-NT2RP2006196 | 0.32 |
|    | NT2RP2006200 | F-NT2RP2006200 | 0.70 |
|    | NT2RP2006219 | F-NT2RP2006219 | 0.94 |
| 50 | NT2RP2006237 | F-NT2RP2006237 | 0.59 |
|    | NT2RP2006238 | F-NT2RP2006238 | 0.47 |
|    | NT2RP2006275 | F-NT2RP2006275 | 0.89 |
|    | NT2RP2006312 | F-NT2RP2006312 | 0.75 |
| 55 | NT2RP2006333 | F-NT2RP2006333 | 0.73 |
|    | NT2RP2006334 | F-NT2RP2006334 | 0.72 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP2006365 | F-NT2RP2006365 | 0. 48 |
|    | NT2RP2006436 | F-NT2RP2006436 | 0. 75 |
| 5  | NT2RP2006441 | F-NT2RP2006441 | 0. 61 |
|    | NT2RP2006456 | F-NT2RP2006456 | 0. 60 |
|    | NT2RP2006464 | F-NT2RP2006464 | 0. 51 |
|    | NT2RP2006472 | F-NT2RP2006472 | 0. 76 |
| 10 | NT2RP2006565 | F-NT2RP2006565 | 0. 34 |
|    | NT2RP2006571 | F-NT2RP2006571 | 0. 94 |
|    | NT2RP2006573 | F-NT2RP2006573 | 0. 35 |
|    | NT2RP3000002 | F-NT2RP3000002 | 0. 40 |
|    | NT2RP3000031 | F-NT2RP3000031 | 0. 49 |
| 15 | NT2RP3000046 | F-NT2RP3000046 | 0. 90 |
|    | NT2RP3000047 | F-NT2RP3000047 | 0. 69 |
|    | NT2RP3000050 | F-NT2RP3000050 | 0. 78 |
|    | NT2RP3000068 | F-NT2RP3000068 | 0. 94 |
| 20 | NT2RP3000072 | F-NT2RP3000072 | 0. 34 |
|    | NT2RP3000080 | F-NT2RP3000080 | 0. 32 |
|    | NT2RP3000085 | F-NT2RP3000085 | 0. 92 |
|    | NT2RP3000092 | F-NT2RP3000092 | 0. 40 |
| 25 | NT2RP3000134 | F-NT2RP3000134 | 0. 42 |
|    | NT2RP3000142 | F-NT2RP3000142 | 0. 58 |
|    | NT2RP3000149 | F-NT2RP3000149 | 0. 83 |
|    | NT2RP3000197 | F-NT2RP3000197 | 0. 59 |
| 30 | NT2RP3000207 | F-NT2RP3000207 | 0. 48 |
|    | NT2RP3000220 | F-NT2RP3000220 | 0. 75 |
|    | NT2RP3000251 | F-NT2RP3000251 | 0. 82 |
|    | NT2RP3000252 | F-NT2RP3000252 | 0. 88 |
| 35 | NT2RP3000255 | F-NT2RP3000255 | 0. 94 |
|    | NT2RP3000267 | F-NT2RP3000267 | 0. 92 |
|    | NT2RP3000299 | F-NT2RP3000299 | 0. 94 |
|    | NT2RP3000312 | F-NT2RP3000312 | 0. 57 |
|    | NT2RP3000320 | F-NT2RP3000320 | 0. 94 |
| 40 | NT2RP3000324 | F-NT2RP3000324 | 0. 32 |
|    | NT2RP3000333 | F-NT2RP3000333 | 0. 94 |
|    | NT2RP3000348 | F-NT2RP3000348 | 0. 32 |
|    | NT2RP3000350 | F-NT2RP3000350 | 0. 67 |
| 45 | NT2RP3000359 | F-NT2RP3000359 | 0. 94 |
|    | NT2RP3000361 | F-NT2RP3000361 | 0. 94 |
|    | NT2RP3000366 | F-NT2RP3000366 | 0. 94 |
|    | NT2RP3000393 | F-NT2RP3000393 | 0. 53 |
| 50 | NT2RP3000397 | F-NT2RP3000397 | 0. 89 |
|    | NT2RP3000403 | F-NT2RP3000403 | 0. 87 |
|    | NT2RP3000439 | F-NT2RP3000439 | 0. 77 |
|    | NT2RP3000456 | F-NT2RP3000456 | 0. 88 |
| 55 | NT2RP3000484 | F-NT2RP3000484 | 0. 59 |
|    | NT2RP3000487 | F-NT2RP3000487 | 0. 32 |

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|----|--------------|----------------|------|
|    | NT2RP3000526 | F-NT2RP3000526 | 0.32 |
|    | NT2RP3000527 | F-NT2RP3000527 | 0.69 |
| 5  | NT2RP3000531 | F-NT2RP3000531 | 0.56 |
|    | NT2RP3000562 | F-NT2RP3000562 | 0.44 |
|    | NT2RP3000590 | F-NT2RP3000590 | 0.88 |
|    | NT2RP3000592 | F-NT2RP3000592 | 0.92 |
| 10 | NT2RP3000596 | F-NT2RP3000596 | 0.50 |
|    | NT2RP3000599 | F-NT2RP3000599 | 0.69 |
|    | NT2RP3000603 | F-NT2RP3000603 | 0.94 |
|    | NT2RP3000605 | F-NT2RP3000605 | 0.92 |
|    | NT2RP3000624 | F-NT2RP3000624 | 0.71 |
| 15 | NT2RP3000632 | F-NT2RP3000632 | 0.43 |
|    | NT2RP3000644 | F-NT2RP3000644 | 0.94 |
|    | NT2RP3000661 | F-NT2RP3000661 | 0.60 |
|    | NT2RP3000665 | F-NT2RP3000665 | 0.46 |
| 20 | NT2RP3000690 | F-NT2RP3000690 | 0.79 |
|    | NT2RP3000739 | F-NT2RP3000739 | 0.94 |
|    | NT2RP3000753 | F-NT2RP3000753 | 0.42 |
|    | NT2RP3000759 | F-NT2RP3000759 | 0.94 |
| 25 | NT2RP3000825 | F-NT2RP3000825 | 0.73 |
|    | NT2RP3000826 | F-NT2RP3000826 | 0.94 |
|    | NT2RP3000836 | F-NT2RP3000836 | 0.39 |
|    | NT2RP3000841 | F-NT2RP3000841 | 0.55 |
| 30 | NT2RP3000845 | F-NT2RP3000845 | 0.38 |
|    | NT2RP3000847 | F-NT2RP3000847 | 0.67 |
|    | NT2RP3000850 | F-NT2RP3000850 | 0.59 |
|    | NT2RP3000852 | F-NT2RP3000852 | 0.39 |
|    | NT2RP3000859 | F-NT2RP3000859 | 0.83 |
| 35 | NT2RP3000868 | F-NT2RP3000868 | 0.49 |
|    | NT2RP3000869 | F-NT2RP3000869 | 0.94 |
|    | NT2RP3000901 | F-NT2RP3000901 | 0.34 |
|    | NT2RP3000917 | F-NT2RP3000917 | 0.73 |
| 40 | NT2RP3000919 | F-NT2RP3000919 | 0.94 |
|    | NT2RP3000968 | F-NT2RP3000968 | 0.94 |
|    | NT2RP3000980 | F-NT2RP3000980 | 0.61 |
|    | NT2RP3000994 | F-NT2RP3000994 | 0.45 |
| 45 | NT2RP3001004 | F-NT2RP3001004 | 0.86 |
|    | NT2RP3001055 | F-NT2RP3001055 | 0.38 |
|    | NT2RP3001057 | F-NT2RP3001057 | 0.84 |
|    | NT2RP3001081 | F-NT2RP3001081 | 0.57 |
| 50 | NT2RP3001084 | F-NT2RP3001084 | 0.94 |
|    | NT2RP3001096 | F-NT2RP3001096 | 0.94 |
|    | NT2RP3001107 | F-NT2RP3001107 | 0.88 |
|    | NT2RP3001109 | F-NT2RP3001109 | 0.67 |
| 55 | NT2RP3001111 | F-NT2RP3001111 | 0.87 |
|    | NT2RP3001113 | F-NT2RP3001113 | 0.40 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP3001116 | F-NT2RP3001116 | 0.73 |
|    | NT2RP3001119 | F-NT2RP3001119 | 0.62 |
| 5  | NT2RP3001120 | F-NT2RP3001120 | 0.59 |
|    | NT2RP3001126 | F-NT2RP3001126 | 0.94 |
|    | NT2RP3001133 | F-NT2RP3001133 | 0.89 |
|    | NT2RP3001140 | F-NT2RP3001140 | 0.59 |
| 10 | NT2RP3001147 | F-NT2RP3001147 | 0.94 |
|    | NT2RP3001150 | F-NT2RP3001150 | 0.92 |
|    | NT2RP3001155 | F-NT2RP3001155 | 0.94 |
|    | NT2RP3001176 | F-NT2RP3001176 | 0.82 |
| 15 | NT2RP3001214 | F-NT2RP3001214 | 0.41 |
|    | NT2RP3001216 | F-NT2RP3001216 | 0.32 |
|    | NT2RP3001221 | F-NT2RP3001221 | 0.46 |
|    | NT2RP3001236 | F-NT2RP3001236 | 0.79 |
| 20 | NT2RP3001239 | F-NT2RP3001239 | 0.94 |
|    | NT2RP3001253 | F-NT2RP3001253 | 0.59 |
|    | NT2RP3001260 | F-NT2RP3001260 | 0.94 |
|    | NT2RP3001268 | F-NT2RP3001268 | 0.75 |
|    | NT2RP3001272 | F-NT2RP3001272 | 0.94 |
| 25 | NT2RP3001274 | F-NT2RP3001274 | 0.94 |
|    | NT2RP3001297 | F-NT2RP3001297 | 0.94 |
|    | NT2RP3001307 | F-NT2RP3001307 | 0.87 |
|    | NT2RP3001325 | F-NT2RP3001325 | 0.71 |
| 30 | NT2RP3001338 | F-NT2RP3001338 | 0.90 |
|    | NT2RP3001355 | F-NT2RP3001355 | 0.40 |
|    | NT2RP3001356 | F-NT2RP3001356 | 0.88 |
|    | NT2RP3001384 | F-NT2RP3001384 | 0.91 |
| 35 | NT2RP3001392 | F-NT2RP3001392 | 0.42 |
|    | NT2RP3001396 | F-NT2RP3001396 | 0.56 |
|    | NT2RP3001398 | F-NT2RP3001398 | 0.94 |
|    | NT2RP3001399 | F-NT2RP3001399 | 0.94 |
| 40 | NT2RP3001407 | F-NT2RP3001407 | 0.54 |
|    | NT2RP3001420 | F-NT2RP3001420 | 0.74 |
|    | NT2RP3001426 | F-NT2RP3001426 | 0.92 |
|    | NT2RP3001427 | F-NT2RP3001427 | 0.40 |
|    | NT2RP3001428 | F-NT2RP3001428 | 0.94 |
| 45 | NT2RP3001447 | F-NT2RP3001447 | 0.57 |
|    | NT2RP3001449 | F-NT2RP3001449 | 0.62 |
|    | NT2RP3001453 | F-NT2RP3001453 | 0.94 |
|    | NT2RP3001457 | F-NT2RP3001457 | 0.89 |
| 50 | NT2RP3001472 | F-NT2RP3001472 | 0.82 |
|    | NT2RP3001490 | F-NT2RP3001490 | 0.53 |
|    | NT2RP3001495 | F-NT2RP3001495 | 0.94 |
|    | NT2RP3001497 | F-NT2RP3001497 | 0.40 |
| 55 | NT2RP3001529 | F-NT2RP3001529 | 0.94 |
|    | NT2RP3001538 | F-NT2RP3001538 | 0.93 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP3001554 | F-NT2RP3001554 | 0.91 |
|    | NT2RP3001587 | F-NT2RP3001587 | 0.94 |
| 5  | NT2RP3001608 | F-NT2RP3001608 | 0.94 |
|    | NT2RP3001621 | F-NT2RP3001621 | 0.78 |
|    | NT2RP3001629 | F-NT2RP3001629 | 0.42 |
|    | NT2RP3001642 | F-NT2RP3001642 | 0.94 |
| 10 | NT2RP3001646 | F-NT2RP3001646 | 0.94 |
|    | NT2RP3001671 | F-NT2RP3001671 | 0.77 |
|    | NT2RP3001672 | F-NT2RP3001672 | 0.88 |
|    | NT2RP3001676 | F-NT2RP3001676 | 0.88 |
|    | NT2RP3001678 | F-NT2RP3001678 | 0.44 |
| 15 | NT2RP3001679 | F-NT2RP3001679 | 0.44 |
|    | NT2RP3001688 | F-NT2RP3001688 | 0.67 |
|    | NT2RP3001690 | F-NT2RP3001690 | 0.58 |
|    | NT2RP3001698 | F-NT2RP3001698 | 0.86 |
| 20 | NT2RP3001708 | F-NT2RP3001708 | 0.38 |
|    | NT2RP3001712 | F-NT2RP3001712 | 0.75 |
|    | NT2RP3001716 | F-NT2RP3001716 | 0.77 |
|    | NT2RP3001724 | F-NT2RP3001724 | 0.65 |
| 25 | NT2RP3001727 | F-NT2RP3001727 | 0.84 |
|    | NT2RP3001730 | F-NT2RP3001730 | 0.77 |
|    | NT2RP3001739 | F-NT2RP3001739 | 0.78 |
|    | NT2RP3001753 | F-NT2RP3001753 | 0.79 |
| 30 | NT2RP3001764 | F-NT2RP3001764 | 0.33 |
|    | NT2RP3001777 | F-NT2RP3001777 | 0.87 |
|    | NT2RP3001792 | F-NT2RP3001792 | 0.86 |
|    | NT2RP3001799 | F-NT2RP3001799 | 0.79 |
|    | NT2RP3001819 | F-NT2RP3001819 | 0.31 |
| 35 | NT2RP3001844 | F-NT2RP3001844 | 0.34 |
|    | NT2RP3001854 | F-NT2RP3001854 | 0.94 |
|    | NT2RP3001855 | F-NT2RP3001855 | 0.88 |
|    | NT2RP3001857 | F-NT2RP3001857 | 0.41 |
| 40 | NT2RP3001896 | F-NT2RP3001896 | 0.94 |
|    | NT2RP3001915 | F-NT2RP3001915 | 0.42 |
|    | NT2RP3001929 | F-NT2RP3001929 | 0.49 |
|    | NT2RP3001931 | F-NT2RP3001931 | 0.94 |
| 45 | NT2RP3001938 | F-NT2RP3001938 | 0.32 |
|    | NT2RP3001943 | F-NT2RP3001943 | 0.70 |
|    | NT2RP3001944 | F-NT2RP3001944 | 0.94 |
|    | NT2RP3001969 | F-NT2RP3001969 | 0.54 |
| 50 | NT2RP3002007 | F-NT2RP3002007 | 0.56 |
|    | NT2RP3002014 | F-NT2RP3002014 | 0.94 |
|    | NT2RP3002033 | F-NT2RP3002033 | 0.94 |
|    | NT2RP3002045 | F-NT2RP3002045 | 0.91 |
|    | NT2RP3002054 | F-NT2RP3002054 | 0.94 |
| 55 | NT2RP3002062 | F-NT2RP3002062 | 0.62 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP3002063 | F-NT2RP3002063 | 0.34 |
|    | NT2RP3002081 | F-NT2RP3002081 | 0.57 |
| 5  | NT2RP3002097 | F-NT2RP3002097 | 0.72 |
|    | NT2RP3002102 | F-NT2RP3002102 | 0.90 |
|    | NT2RP3002108 | F-NT2RP3002108 | 0.74 |
|    | NT2RP3002142 | F-NT2RP3002142 | 0.61 |
|    | NT2RP3002146 | F-NT2RP3002146 | 0.91 |
| 10 | NT2RP3002147 | F-NT2RP3002147 | 0.37 |
|    | NT2RP3002151 | F-NT2RP3002151 | 0.90 |
|    | NT2RP3002163 | F-NT2RP3002163 | 0.76 |
|    | NT2RP3002165 | F-NT2RP3002165 | 0.89 |
| 15 | NT2RP3002181 | F-NT2RP3002181 | 0.78 |
|    | NT2RP3002244 | F-NT2RP3002244 | 0.81 |
|    | NT2RP3002248 | F-NT2RP3002248 | 0.36 |
|    | NT2RP3002255 | F-NT2RP3002255 | 0.53 |
| 20 | NT2RP3002273 | F-NT2RP3002273 | 0.90 |
|    | NT2RP3002276 | F-NT2RP3002276 | 0.39 |
|    | NT2RP3002303 | F-NT2RP3002303 | 0.40 |
|    | NT2RP3002304 | F-NT2RP3002304 | 0.44 |
| 25 | NT2RP3002330 | F-NT2RP3002330 | 0.94 |
|    | NT2RP3002343 | F-NT2RP3002343 | 0.94 |
|    | NT2RP3002351 | F-NT2RP3002351 | 0.94 |
|    | NT2RP3002377 | F-NT2RP3002377 | 0.52 |
| 30 | NT2RP3002399 | F-NT2RP3002399 | 0.91 |
|    | NT2RP3002402 | F-NT2RP3002402 | 0.33 |
|    | NT2RP3002455 | F-NT2RP3002455 | 0.42 |
|    | NT2RP3002484 | F-NT2RP3002484 | 0.52 |
| 35 | NT2RP3002501 | F-NT2RP3002501 | 0.57 |
|    | NT2RP3002512 | F-NT2RP3002512 | 0.63 |
|    | NT2RP3002529 | F-NT2RP3002529 | 0.74 |
|    | NT2RP3002545 | F-NT2RP3002545 | 0.94 |
|    | NT2RP3002549 | F-NT2RP3002549 | 0.94 |
| 40 | NT2RP3002566 | F-NT2RP3002566 | 0.74 |
|    | NT2RP3002587 | F-NT2RP3002587 | 0.94 |
|    | NT2RP3002590 | F-NT2RP3002590 | 0.37 |
|    | NT2RP3002602 | F-NT2RP3002602 | 0.39 |
| 45 | NT2RP3002603 | F-NT2RP3002603 | 0.46 |
|    | NT2RP3002628 | F-NT2RP3002628 | 0.31 |
|    | NT2RP3002631 | F-NT2RP3002631 | 0.79 |
|    | NT2RP3002650 | F-NT2RP3002650 | 0.94 |
| 50 | NT2RP3002659 | F-NT2RP3002659 | 0.93 |
|    | NT2RP3002660 | F-NT2RP3002660 | 0.46 |
|    | NT2RP3002663 | F-NT2RP3002663 | 0.79 |
|    | NT2RP3002671 | F-NT2RP3002671 | 0.34 |
| 55 | NT2RP3002682 | F-NT2RP3002682 | 0.52 |
|    | NT2RP3002688 | F-NT2RP3002688 | 0.82 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP3002701 | F-NT2RP3002701 | 0. 62 |
|    | NT2RP3002763 | F-NT2RP3002763 | 0. 83 |
| 5  | NT2RP3002785 | F-NT2RP3002785 | 0. 33 |
|    | NT2RP3002818 | F-NT2RP3002818 | 0. 91 |
|    | NT2RP3002861 | F-NT2RP3002861 | 0. 31 |
|    | NT2RP3002869 | F-NT2RP3002869 | 0. 47 |
|    | NT2RP3002876 | F-NT2RP3002876 | 0. 58 |
| 10 | NT2RP3002877 | F-NT2RP3002877 | 0. 41 |
|    | NT2RP3002909 | F-NT2RP3002909 | 0. 52 |
|    | NT2RP3002911 | F-NT2RP3002911 | 0. 73 |
|    | NT2RP3002948 | F-NT2RP3002948 | 0. 60 |
| 15 | NT2RP3002953 | F-NT2RP3002953 | 0. 37 |
|    | NT2RP3002969 | F-NT2RP3002969 | 0. 47 |
|    | NT2RP3002972 | F-NT2RP3002972 | 0. 87 |
|    | NT2RP3002985 | F-NT2RP3002985 | 0. 55 |
| 20 | NT2RP3002988 | F-NT2RP3002988 | 0. 82 |
|    | NT2RP3003008 | F-NT2RP3003008 | 0. 94 |
|    | NT2RP3003061 | F-NT2RP3003061 | 0. 93 |
|    | NT2RP3003068 | F-NT2RP3003068 | 0. 45 |
| 25 | NT2RP3003071 | F-NT2RP3003071 | 0. 76 |
|    | NT2RP3003078 | F-NT2RP3003078 | 0. 40 |
|    | NT2RP3003101 | F-NT2RP3003101 | 0. 41 |
|    | NT2RP3003139 | F-NT2RP3003139 | 0. 43 |
| 30 | NT2RP3003145 | F-NT2RP3003145 | 0. 94 |
|    | NT2RP3003150 | F-NT2RP3003150 | 0. 94 |
|    | NT2RP3003157 | F-NT2RP3003157 | 0. 81 |
|    | NT2RP3003185 | F-NT2RP3003185 | 0. 87 |
| 35 | NT2RP3003193 | F-NT2RP3003193 | 0. 94 |
|    | NT2RP3003197 | F-NT2RP3003197 | 0. 74 |
|    | NT2RP3003203 | F-NT2RP3003203 | 0. 94 |
|    | NT2RP3003204 | F-NT2RP3003204 | 0. 74 |
|    | NT2RP3003210 | F-NT2RP3003210 | 0. 45 |
| 40 | NT2RP3003212 | F-NT2RP3003212 | 0. 51 |
|    | NT2RP3003230 | F-NT2RP3003230 | 0. 94 |
|    | NT2RP3003242 | F-NT2RP3003242 | 0. 92 |
|    | NT2RP3003251 | F-NT2RP3003251 | 0. 93 |
| 45 | NT2RP3003278 | F-NT2RP3003278 | 0. 83 |
|    | NT2RP3003282 | F-NT2RP3003282 | 0. 67 |
|    | NT2RP3003290 | F-NT2RP3003290 | 0. 62 |
|    | NT2RP3003301 | F-NT2RP3003301 | 0. 49 |
| 50 | NT2RP3003302 | F-NT2RP3003302 | 0. 32 |
|    | NT2RP3003311 | F-NT2RP3003311 | 0. 34 |
|    | NT2RP3003313 | F-NT2RP3003313 | 0. 88 |
|    | NT2RP3003327 | F-NT2RP3003327 | 0. 88 |
| 55 | NT2RP3003330 | F-NT2RP3003330 | 0. 94 |
|    | NT2RP3003344 | F-NT2RP3003344 | 0. 67 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP3003353 | F-NT2RP3003353 | 0.65 |
|    | NT2RP3003377 | F-NT2RP3003377 | 0.87 |
| 5  | NT2RP3003385 | F-NT2RP3003385 | 0.94 |
|    | NT2RP3003409 | F-NT2RP3003409 | 0.41 |
|    | NT2RP3003411 | F-NT2RP3003411 | 0.47 |
|    | NT2RP3003427 | F-NT2RP3003427 | 0.33 |
|    | NT2RP3003490 | F-NT2RP3003490 | 0.56 |
| 10 | NT2RP3003491 | F-NT2RP3003491 | 0.37 |
|    | NT2RP3003543 | F-NT2RP3003543 | 0.92 |
|    | NT2RP3003552 | F-NT2RP3003552 | 0.64 |
|    | NT2RP3003555 | F-NT2RP3003555 | 0.94 |
| 15 | NT2RP3003564 | F-NT2RP3003564 | 0.86 |
|    | NT2RP3003589 | F-NT2RP3003589 | 0.88 |
|    | NT2RP3003621 | F-NT2RP3003621 | 0.49 |
|    | NT2RP3003656 | F-NT2RP3003656 | 0.77 |
| 20 | NT2RP3003659 | F-NT2RP3003659 | 0.32 |
|    | NT2RP3003672 | F-NT2RP3003672 | 0.49 |
|    | NT2RP3003680 | F-NT2RP3003680 | 0.94 |
|    | NT2RP3003686 | F-NT2RP3003686 | 0.78 |
| 25 | NT2RP3003701 | F-NT2RP3003701 | 0.36 |
|    | NT2RP3003716 | F-NT2RP3003716 | 0.34 |
|    | NT2RP3003726 | F-NT2RP3003726 | 0.72 |
|    | NT2RP3003795 | F-NT2RP3003795 | 0.34 |
| 30 | NT2RP3003805 | F-NT2RP3003805 | 0.74 |
|    | NT2RP3003809 | F-NT2RP3003809 | 0.73 |
|    | NT2RP3003825 | F-NT2RP3003825 | 0.94 |
|    | NT2RP3003831 | F-NT2RP3003831 | 0.52 |
|    | NT2RP3003833 | F-NT2RP3003833 | 0.31 |
| 35 | NT2RP3003846 | F-NT2RP3003846 | 0.54 |
|    | NT2RP3003870 | F-NT2RP3003870 | 0.91 |
|    | NT2RP3003876 | F-NT2RP3003876 | 0.42 |
|    | NT2RP3003914 | F-NT2RP3003914 | 0.94 |
| 40 | NT2RP3003918 | F-NT2RP3003918 | 0.90 |
|    | NT2RP3003932 | F-NT2RP3003932 | 0.64 |
|    | NT2RP3003992 | F-NT2RP3003992 | 0.94 |
|    | NT2RP3004013 | F-NT2RP3004013 | 0.60 |
| 45 | NT2RP3004041 | F-NT2RP3004041 | 0.52 |
|    | NT2RP3004051 | F-NT2RP3004051 | 0.75 |
|    | NT2RP3004078 | F-NT2RP3004078 | 0.73 |
|    | NT2RP3004093 | F-NT2RP3004093 | 0.64 |
| 50 | NT2RP3004125 | F-NT2RP3004125 | 0.94 |
|    | NT2RP3004155 | F-NT2RP3004155 | 0.89 |
|    | NT2RP3004189 | F-NT2RP3004189 | 0.46 |
|    | NT2RP3004206 | F-NT2RP3004206 | 0.59 |
| 55 | NT2RP3004207 | F-NT2RP3004207 | 0.39 |
|    | NT2RP3004209 | F-NT2RP3004209 | 0.54 |



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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP3004242 | F-NT2RP3004242 | 0. 61 |
|    | NT2RP3004246 | F-NT2RP3004246 | 0. 91 |
| 5  | NT2RP3004253 | F-NT2RP3004253 | 0. 41 |
|    | NT2RP3004258 | F-NT2RP3004258 | 0. 41 |
|    | NT2RP3004262 | F-NT2RP3004262 | 0. 56 |
|    | NT2RP3004282 | F-NT2RP3004282 | 0. 90 |
| 10 | NT2RP3004332 | F-NT2RP3004332 | 0. 53 |
|    | NT2RP3004341 | F-NT2RP3004341 | 0. 40 |
|    | NT2RP3004348 | F-NT2RP3004348 | 0. 94 |
|    | NT2RP3004378 | F-NT2RP3004378 | 0. 40 |
|    | NT2RP3004424 | F-NT2RP3004424 | 0. 75 |
| 15 | NT2RP3004428 | F-NT2RP3004428 | 0. 85 |
|    | NT2RP3004451 | F-NT2RP3004451 | 0. 85 |
|    | NT2RP3004454 | F-NT2RP3004454 | 0. 93 |
|    | NT2RP3004466 | F-NT2RP3004466 | 0. 80 |
| 20 | NT2RP3004472 | F-NT2RP3004472 | 0. 46 |
|    | NT2RP3004480 | F-NT2RP3004480 | 0. 77 |
|    | NT2RP3004490 | F-NT2RP3004490 | 0. 65 |
|    | NT2RP3004498 | F-NT2RP3004498 | 0. 91 |
| 25 | NT2RP3004504 | F-NT2RP3004504 | 0. 88 |
|    | NT2RP3004507 | F-NT2RP3004507 | 0. 86 |
|    | NT2RP3004534 | F-NT2RP3004534 | 0. 32 |
|    | NT2RP3004539 | F-NT2RP3004539 | 0. 76 |
| 30 | NT2RP3004544 | F-NT2RP3004544 | 0. 94 |
|    | NT2RP3004566 | F-NT2RP3004566 | 0. 94 |
|    | NT2RP3004569 | F-NT2RP3004569 | 0. 69 |
|    | NT2RP3004572 | F-NT2RP3004572 | 0. 65 |
|    | NT2RP3004578 | F-NT2RP3004578 | 0. 52 |
| 35 | NT2RP3004594 | F-NT2RP3004594 | 0. 39 |
|    | NT2RP3004617 | F-NT2RP3004617 | 0. 94 |
|    | NT2RP3004618 | F-NT2RP3004618 | 0. 41 |
|    | NT2RP3004669 | F-NT2RP3004669 | 0. 82 |
| 40 | NT2RP3004670 | F-NT2RP3004670 | 0. 32 |
|    | NT2RP4000008 | F-NT2RP4000008 | 0. 94 |
|    | NT2RP4000051 | F-NT2RP4000051 | 0. 94 |
|    | NT2RP4000109 | F-NT2RP4000109 | 0. 84 |
| 45 | NT2RP4000111 | F-NT2RP4000111 | 0. 49 |
|    | NT2RP4000129 | F-NT2RP4000129 | 0. 94 |
|    | NT2RP4000147 | F-NT2RP4000147 | 0. 92 |
|    | NT2RP4000150 | F-NT2RP4000150 | 0. 41 |
| 50 | NT2RP4000151 | F-NT2RP4000151 | 0. 33 |
|    | NT2RP4000159 | F-NT2RP4000159 | 0. 75 |
|    | NT2RP4000185 | F-NT2RP4000185 | 0. 94 |
|    | NT2RP4000210 | F-NT2RP4000210 | 0. 83 |
|    | NT2RP4000212 | F-NT2RP4000212 | 0. 94 |
| 55 | NT2RP4000243 | F-NT2RP4000243 | 0. 94 |

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|----|--------------|----------------|-------|
|    | NT2RP4000246 | F-NT2RP4000246 | 0. 59 |
|    | NT2RP4000259 | F-NT2RP4000259 | 0. 94 |
| 5  | NT2RP4000263 | F-NT2RP4000263 | 0. 62 |
|    | NT2RP4000290 | F-NT2RP4000290 | 0. 92 |
|    | NT2RP4000312 | F-NT2RP4000312 | 0. 39 |
|    | NT2RP4000323 | F-NT2RP4000323 | 0. 73 |
| 10 | NT2RP4000355 | F-NT2RP4000355 | 0. 94 |
|    | NT2RP4000360 | F-NT2RP4000360 | 0. 55 |
|    | NT2RP4000367 | F-NT2RP4000367 | 0. 60 |
|    | NT2RP4000370 | F-NT2RP4000370 | 0. 93 |
|    | NT2RP4000376 | F-NT2RP4000376 | 0. 88 |
| 15 | NT2RP4000381 | F-NT2RP4000381 | 0. 39 |
|    | NT2RP4000398 | F-NT2RP4000398 | 0. 64 |
|    | NT2RP4000415 | F-NT2RP4000415 | 0. 94 |
|    | NT2RP4000417 | F-NT2RP4000417 | 0. 33 |
| 20 | NT2RP4000448 | F-NT2RP4000448 | 0. 33 |
|    | NT2RP4000449 | F-NT2RP4000449 | 0. 33 |
|    | NT2RP4000455 | F-NT2RP4000455 | 0. 37 |
|    | NT2RP4000457 | F-NT2RP4000457 | 0. 36 |
| 25 | NT2RP4000480 | F-NT2RP4000480 | 0. 88 |
|    | NT2RP4000481 | F-NT2RP4000481 | 0. 51 |
|    | NT2RP4000498 | F-NT2RP4000498 | 0. 64 |
|    | NT2RP4000500 | F-NT2RP4000500 | 0. 67 |
| 30 | NT2RP4000518 | F-NT2RP4000518 | 0. 34 |
|    | NT2RP4000524 | F-NT2RP4000524 | 0. 94 |
|    | NT2RP4000528 | F-NT2RP4000528 | 0. 65 |
|    | NT2RP4000541 | F-NT2RP4000541 | 0. 44 |
| 35 | NT2RP4000556 | F-NT2RP4000556 | 0. 69 |
|    | NT2RP4000560 | F-NT2RP4000560 | 0. 67 |
|    | NT2RP4000588 | F-NT2RP4000588 | 0. 94 |
|    | NT2RP4000614 | F-NT2RP4000614 | 0. 94 |
|    | NT2RP4000638 | F-NT2RP4000638 | 0. 74 |
| 40 | NT2RP4000648 | F-NT2RP4000648 | 0. 40 |
|    | NT2RP4000657 | F-NT2RP4000657 | 0. 94 |
|    | NT2RP4000704 | F-NT2RP4000704 | 0. 69 |
|    | NT2RP4000713 | F-NT2RP4000713 | 0. 93 |
| 45 | NT2RP4000724 | F-NT2RP4000724 | 0. 32 |
|    | NT2RP4000728 | F-NT2RP4000728 | 0. 34 |
|    | NT2RP4000737 | F-NT2RP4000737 | 0. 48 |
|    | NT2RP4000739 | F-NT2RP4000739 | 0. 40 |
| 50 | NT2RP4000781 | F-NT2RP4000781 | 0. 94 |
|    | NT2RP4000787 | F-NT2RP4000787 | 0. 94 |
|    | NT2RP4000817 | F-NT2RP4000817 | 0. 60 |
|    | NT2RP4000833 | F-NT2RP4000833 | 0. 35 |
| 55 | NT2RP4000837 | F-NT2RP4000837 | 0. 80 |
|    | NT2RP4000839 | F-NT2RP4000839 | 0. 33 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP4000855 | F-NT2RP4000855 | 0. 74 |
|    | NT2RP4000865 | F-NT2RP4000865 | 0. 77 |
| 5  | NT2RP4000878 | F-NT2RP4000878 | 0. 79 |
|    | NT2RP4000879 | F-NT2RP4000879 | 0. 41 |
|    | NT2RP4000907 | F-NT2RP4000907 | 0. 44 |
|    | NT2RP4000918 | F-NT2RP4000918 | 0. 88 |
| 10 | NT2RP4000925 | F-NT2RP4000925 | 0. 89 |
|    | NT2RP4000927 | F-NT2RP4000927 | 0. 81 |
|    | NT2RP4000928 | F-NT2RP4000928 | 0. 39 |
|    | NT2RP4000929 | F-NT2RP4000929 | 0. 34 |
| 15 | NT2RP4000955 | F-NT2RP4000955 | 0. 77 |
|    | NT2RP4000973 | F-NT2RP4000973 | 0. 36 |
|    | NT2RP4000975 | F-NT2RP4000975 | 0. 87 |
|    | NT2RP4000979 | F-NT2RP4000979 | 0. 50 |
|    | NT2RP4000984 | F-NT2RP4000984 | 0. 66 |
| 20 | NT2RP4000989 | F-NT2RP4000989 | 0. 94 |
|    | NT2RP4000997 | F-NT2RP4000997 | 0. 68 |
|    | NT2RP4001004 | F-NT2RP4001004 | 0. 40 |
|    | NT2RP4001006 | F-NT2RP4001006 | 0. 91 |
| 25 | NT2RP4001010 | F-NT2RP4001010 | 0. 64 |
|    | NT2RP4001029 | F-NT2RP4001029 | 0. 77 |
|    | NT2RP4001041 | F-NT2RP4001041 | 0. 79 |
|    | NT2RP4001057 | F-NT2RP4001057 | 0. 65 |
| 30 | NT2RP4001064 | F-NT2RP4001064 | 0. 94 |
|    | NT2RP4001078 | F-NT2RP4001078 | 0. 39 |
|    | NT2RP4001079 | F-NT2RP4001079 | 0. 94 |
|    | NT2RP4001080 | F-NT2RP4001080 | 0. 58 |
| 35 | NT2RP4001086 | F-NT2RP4001086 | 0. 78 |
|    | NT2RP4001095 | F-NT2RP4001095 | 0. 80 |
|    | NT2RP4001100 | F-NT2RP4001100 | 0. 79 |
|    | NT2RP4001117 | F-NT2RP4001117 | 0. 60 |
|    | NT2RP4001122 | F-NT2RP4001122 | 0. 82 |
| 40 | NT2RP4001126 | F-NT2RP4001126 | 0. 55 |
|    | NT2RP4001138 | F-NT2RP4001138 | 0. 94 |
|    | NT2RP4001143 | F-NT2RP4001143 | 0. 41 |
|    | NT2RP4001148 | F-NT2RP4001148 | 0. 37 |
| 45 | NT2RP4001149 | F-NT2RP4001149 | 0. 50 |
|    | NT2RP4001150 | F-NT2RP4001150 | 0. 94 |
|    | NT2RP4001159 | F-NT2RP4001159 | 0. 78 |
|    | NT2RP4001174 | F-NT2RP4001174 | 0. 94 |
| 50 | NT2RP4001206 | F-NT2RP4001206 | 0. 80 |
|    | NT2RP4001207 | F-NT2RP4001207 | 0. 38 |
|    | NT2RP4001210 | F-NT2RP4001210 | 0. 94 |
|    | NT2RP4001213 | F-NT2RP4001213 | 0. 46 |
| 55 | NT2RP4001219 | F-NT2RP4001219 | 0. 38 |
|    | NT2RP4001228 | F-NT2RP4001228 | 0. 61 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP4001235 | F-NT2RP4001235 | 0.88 |
|    | NT2RP4001256 | F-NT2RP4001256 | 0.60 |
| 5  | NT2RP4001260 | F-NT2RP4001260 | 0.94 |
|    | NT2RP4001274 | F-NT2RP4001274 | 0.82 |
|    | NT2RP4001276 | F-NT2RP4001276 | 0.68 |
|    | NT2RP4001313 | F-NT2RP4001313 | 0.77 |
|    | NT2RP4001315 | F-NT2RP4001315 | 0.87 |
| 10 | NT2RP4001336 | F-NT2RP4001336 | 0.48 |
|    | NT2RP4001339 | F-NT2RP4001339 | 0.41 |
|    | NT2RP4001343 | F-NT2RP4001343 | 0.63 |
|    | NT2RP4001345 | F-NT2RP4001345 | 0.89 |
| 15 | NT2RP4001351 | F-NT2RP4001351 | 0.87 |
|    | NT2RP4001353 | F-NT2RP4001353 | 0.72 |
|    | NT2RP4001372 | F-NT2RP4001372 | 0.78 |
|    | NT2RP4001373 | F-NT2RP4001373 | 0.60 |
| 20 | NT2RP4001375 | F-NT2RP4001375 | 0.43 |
|    | NT2RP4001379 | F-NT2RP4001379 | 0.77 |
|    | NT2RP4001389 | F-NT2RP4001389 | 0.41 |
|    | NT2RP4001414 | F-NT2RP4001414 | 0.90 |
| 25 | NT2RP4001433 | F-NT2RP4001433 | 0.39 |
|    | NT2RP4001442 | F-NT2RP4001442 | 0.59 |
|    | NT2RP4001447 | F-NT2RP4001447 | 0.33 |
|    | NT2RP4001474 | F-NT2RP4001474 | 0.89 |
| 30 | NT2RP4001483 | F-NT2RP4001483 | 0.94 |
|    | NT2RP4001498 | F-NT2RP4001498 | 0.59 |
|    | NT2RP4001502 | F-NT2RP4001502 | 0.61 |
|    | NT2RP4001507 | F-NT2RP4001507 | 0.91 |
|    | NT2RP4001524 | F-NT2RP4001524 | 0.61 |
| 35 | NT2RP4001529 | F-NT2RP4001529 | 0.75 |
|    | NT2RP4001547 | F-NT2RP4001547 | 0.77 |
|    | NT2RP4001551 | F-NT2RP4001551 | 0.79 |
|    | NT2RP4001555 | F-NT2RP4001555 | 0.79 |
| 40 | NT2RP4001567 | F-NT2RP4001567 | 0.39 |
|    | NT2RP4001568 | F-NT2RP4001568 | 0.45 |
|    | NT2RP4001571 | F-NT2RP4001571 | 0.76 |
|    | NT2RP4001574 | F-NT2RP4001574 | 0.91 |
| 45 | NT2RP4001575 | F-NT2RP4001575 | 0.57 |
|    | NT2RP4001592 | F-NT2RP4001592 | 0.71 |
|    | NT2RP4001610 | F-NT2RP4001610 | 0.94 |
|    | NT2RP4001614 | F-NT2RP4001614 | 0.73 |
| 50 | NT2RP4001634 | F-NT2RP4001634 | 0.40 |
|    | NT2RP4001638 | F-NT2RP4001638 | 0.37 |
|    | NT2RP4001644 | F-NT2RP4001644 | 0.94 |
|    | NT2RP4001656 | F-NT2RP4001656 | 0.92 |
| 55 | NT2RP4001677 | F-NT2RP4001677 | 0.47 |
|    | NT2RP4001679 | F-NT2RP4001679 | 0.54 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP4001696 | F-NT2RP4001696 | 0.62 |
|    | NT2RP4001725 | F-NT2RP4001725 | 0.94 |
| 5  | NT2RP4001730 | F-NT2RP4001730 | 0.94 |
|    | NT2RP4001739 | F-NT2RP4001739 | 0.82 |
|    | NT2RP4001753 | F-NT2RP4001753 | 0.66 |
|    | NT2RP4001760 | F-NT2RP4001760 | 0.39 |
| 10 | NT2RP4001790 | F-NT2RP4001790 | 0.64 |
|    | NT2RP4001803 | F-NT2RP4001803 | 0.87 |
|    | NT2RP4001822 | F-NT2RP4001822 | 0.84 |
|    | NT2RP4001823 | F-NT2RP4001823 | 0.56 |
| 15 | NT2RP4001828 | F-NT2RP4001828 | 0.45 |
|    | NT2RP4001838 | F-NT2RP4001838 | 0.87 |
|    | NT2RP4001841 | F-NT2RP4001841 | 0.58 |
|    | NT2RP4001849 | F-NT2RP4001849 | 0.88 |
| 20 | NT2RP4001861 | F-NT2RP4001861 | 0.80 |
|    | NT2RP4001893 | F-NT2RP4001893 | 0.94 |
|    | NT2RP4001896 | F-NT2RP4001896 | 0.93 |
|    | NT2RP4001901 | F-NT2RP4001901 | 0.89 |
|    | NT2RP4001927 | F-NT2RP4001927 | 0.77 |
| 25 | NT2RP4001938 | F-NT2RP4001938 | 0.94 |
|    | NT2RP4001946 | F-NT2RP4001946 | 0.74 |
|    | NT2RP4001950 | F-NT2RP4001950 | 0.45 |
|    | NT2RP4001953 | F-NT2RP4001953 | 0.49 |
| 30 | NT2RP4001966 | F-NT2RP4001966 | 0.86 |
|    | NT2RP4001975 | F-NT2RP4001975 | 0.94 |
|    | NT2RP4002018 | F-NT2RP4002018 | 0.67 |
|    | NT2RP4002047 | F-NT2RP4002047 | 0.67 |
| 35 | NT2RP4002052 | F-NT2RP4002052 | 0.42 |
|    | NT2RP4002058 | F-NT2RP4002058 | 0.78 |
|    | NT2RP4002071 | F-NT2RP4002071 | 0.94 |
|    | NT2RP4002078 | F-NT2RP4002078 | 0.38 |
| 40 | NT2RP4002081 | F-NT2RP4002081 | 0.55 |
|    | NT2RP4002083 | F-NT2RP4002083 | 0.86 |
|    | NT2RP4002408 | F-NT2RP4002408 | 0.64 |
|    | NT2RP4002791 | F-NT2RP4002791 | 0.84 |
|    | NT2RP4002888 | F-NT2RP4002888 | 0.31 |
| 45 | NT2RP5003459 | F-NT2RP5003459 | 0.94 |
|    | NT2RP5003461 | F-NT2RP5003461 | 0.94 |
|    | NT2RP5003477 | F-NT2RP5003477 | 0.44 |
|    | NT2RP5003492 | F-NT2RP5003492 | 0.57 |
| 50 | NT2RP5003500 | F-NT2RP5003500 | 0.94 |
|    | NT2RP5003506 | F-NT2RP5003506 | 0.94 |
|    | NT2RP5003512 | F-NT2RP5003512 | 0.42 |
|    | NT2RP5003522 | F-NT2RP5003522 | 0.94 |
| 55 | NT2RP5003524 | F-NT2RP5003524 | 0.58 |
|    | NT2RP5003534 | F-NT2RP5003534 | 0.32 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | OVARC1000001 | F-OVARC1000001 | 0.74 |
|    | OVARC1000004 | F-OVARC1000004 | 0.90 |
| 5  | OVARC1000006 | F-OVARC1000006 | 0.94 |
|    | OVARC1000013 | F-OVARC1000013 | 0.48 |
|    | OVARC1000014 | F-OVARC1000014 | 0.69 |
|    | OVARC1000035 | F-OVARC1000035 | 0.59 |
| 10 | OVARC1000060 | F-OVARC1000060 | 0.76 |
|    | OVARC1000087 | F-OVARC1000087 | 0.31 |
|    | OVARC1000091 | F-OVARC1000091 | 0.88 |
|    | OVARC1000106 | F-OVARC1000106 | 0.88 |
|    | OVARC1000109 | F-OVARC1000109 | 0.94 |
| 15 | OVARC1000113 | F-OVARC1000113 | 0.40 |
|    | OVARC1000114 | F-OVARC1000114 | 0.53 |
|    | OVARC1000139 | F-OVARC1000139 | 0.88 |
|    | OVARC1000148 | F-OVARC1000148 | 0.94 |
| 20 | OVARC1000151 | F-OVARC1000151 | 0.34 |
|    | OVARC1000168 | F-OVARC1000168 | 0.56 |
|    | OVARC1000209 | F-OVARC1000209 | 0.94 |
|    | OVARC1000212 | F-OVARC1000212 | 0.87 |
| 25 | OVARC1000241 | F-OVARC1000241 | 0.59 |
|    | OVARC1000288 | F-OVARC1000288 | 0.87 |
|    | OVARC1000304 | F-OVARC1000304 | 0.94 |
|    | OVARC1000309 | F-OVARC1000309 | 0.76 |
| 30 | OVARC1000321 | F-OVARC1000321 | 0.90 |
|    | OVARC1000326 | F-OVARC1000326 | 0.46 |
|    | OVARC1000335 | F-OVARC1000335 | 0.55 |
|    | OVARC1000347 | F-OVARC1000347 | 0.43 |
| 35 | OVARC1000384 | F-OVARC1000384 | 0.90 |
|    | OVARC1000408 | F-OVARC1000408 | 0.42 |
|    | OVARC1000411 | F-OVARC1000411 | 0.65 |
|    | OVARC1000420 | F-OVARC1000420 | 0.84 |
|    | OVARC1000437 | F-OVARC1000437 | 0.94 |
| 40 | OVARC1000440 | F-OVARC1000440 | 0.94 |
|    | OVARC1000442 | F-OVARC1000442 | 0.94 |
|    | OVARC1000443 | F-OVARC1000443 | 0.74 |
|    | OVARC1000461 | F-OVARC1000461 | 0.89 |
| 45 | OVARC1000465 | F-OVARC1000465 | 0.75 |
|    | OVARC1000466 | F-OVARC1000466 | 0.94 |
|    | OVARC1000473 | F-OVARC1000473 | 0.31 |
|    | OVARC1000479 | F-OVARC1000479 | 0.42 |
| 50 | OVARC1000520 | F-OVARC1000520 | 0.94 |
|    | OVARC1000556 | F-OVARC1000556 | 0.94 |
|    | OVARC1000557 | F-OVARC1000557 | 0.72 |
|    | OVARC1000564 | F-OVARC1000564 | 0.94 |
| 55 | OVARC1000576 | F-OVARC1000576 | 0.40 |
|    | OVARC1000588 | F-OVARC1000588 | 0.45 |

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|----|--------------|----------------|-------|
|    | OVARC1000605 | F-OVARC1000605 | 0. 58 |
|    | OVARC1000622 | F-OVARC1000622 | 0. 80 |
|    | OVARC1000640 | F-OVARC1000640 | 0. 35 |
| 5  | OVARC1000649 | F-OVARC1000649 | 0. 94 |
|    | OVARC1000661 | F-OVARC1000661 | 0. 87 |
|    | OVARC1000681 | F-OVARC1000681 | 0. 84 |
|    | OVARC1000682 | F-OVARC1000682 | 0. 38 |
| 10 | OVARC1000689 | F-OVARC1000689 | 0. 36 |
|    | OVARC1000703 | F-OVARC1000703 | 0. 92 |
|    | OVARC1000722 | F-OVARC1000722 | 0. 94 |
|    | OVARC1000730 | F-OVARC1000730 | 0. 90 |
| 15 | OVARC1000746 | F-OVARC1000746 | 0. 42 |
|    | OVARC1000771 | F-OVARC1000771 | 0. 94 |
|    | OVARC1000781 | F-OVARC1000781 | 0. 80 |
|    | OVARC1000787 | F-OVARC1000787 | 0. 41 |
| 20 | OVARC1000800 | F-OVARC1000800 | 0. 85 |
|    | OVARC1000834 | F-OVARC1000834 | 0. 62 |
|    | OVARC1000846 | F-OVARC1000846 | 0. 49 |
|    | OVARC1000850 | F-OVARC1000850 | 0. 94 |
| 25 | OVARC1000862 | F-OVARC1000862 | 0. 54 |
|    | OVARC1000876 | F-OVARC1000876 | 0. 74 |
|    | OVARC1000883 | F-OVARC1000883 | 0. 55 |
|    | OVARC1000885 | F-OVARC1000885 | 0. 94 |
| 30 | OVARC1000886 | F-OVARC1000886 | 0. 61 |
|    | OVARC1000890 | F-OVARC1000890 | 0. 45 |
|    | OVARC1000912 | F-OVARC1000912 | 0. 63 |
|    | OVARC1000915 | F-OVARC1000915 | 0. 31 |
|    | OVARC1000924 | F-OVARC1000924 | 0. 82 |
| 35 | OVARC1000945 | F-OVARC1000945 | 0. 74 |
|    | OVARC1000959 | F-OVARC1000959 | 0. 33 |
|    | OVARC1000964 | F-OVARC1000964 | 0. 60 |
|    | OVARC1000984 | F-OVARC1000984 | 0. 59 |
| 40 | OVARC1000996 | F-OVARC1000996 | 0. 83 |
|    | OVARC1000999 | F-OVARC1000999 | 0. 94 |
|    | OVARC1001004 | F-OVARC1001004 | 0. 69 |
|    | OVARC1001010 | F-OVARC1001010 | 0. 51 |
| 45 | OVARC1001032 | F-OVARC1001032 | 0. 32 |
|    | OVARC1001034 | F-OVARC1001034 | 0. 78 |
|    | OVARC1001038 | F-OVARC1001038 | 0. 93 |
|    | OVARC1001040 | F-OVARC1001040 | 0. 68 |
| 50 | OVARC1001044 | F-OVARC1001044 | 0. 66 |
|    | OVARC1001055 | F-OVARC1001055 | 0. 76 |
|    | OVARC1001065 | F-OVARC1001065 | 0. 31 |
|    | OVARC1001068 | F-OVARC1001068 | 0. 63 |
|    | OVARC1001074 | F-OVARC1001074 | 0. 82 |
| 55 | OVARC1001092 | F-OVARC1001092 | 0. 50 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | OVARC1001107 | F-OVARC1001107 | 0.65 |
|    | OVARC1001113 | F-OVARC1001113 | 0.86 |
|    | OVARC1001154 | F-OVARC1001154 | 0.43 |
| 5  | OVARC1001161 | F-OVARC1001161 | 0.75 |
|    | OVARC1001162 | F-OVARC1001162 | 0.61 |
|    | OVARC1001167 | F-OVARC1001167 | 0.31 |
|    | OVARC1001170 | F-OVARC1001170 | 0.46 |
| 10 | OVARC1001171 | F-OVARC1001171 | 0.78 |
|    | OVARC1001173 | F-OVARC1001173 | 0.71 |
|    | OVARC1001176 | F-OVARC1001176 | 0.83 |
|    | OVARC1001180 | F-OVARC1001180 | 0.53 |
| 15 | OVARC1001188 | F-OVARC1001188 | 0.42 |
|    | OVARC1001200 | F-OVARC1001200 | 0.94 |
|    | OVARC1001232 | F-OVARC1001232 | 0.90 |
|    | OVARC1001243 | F-OVARC1001243 | 0.59 |
| 20 | OVARC1001244 | F-OVARC1001244 | 0.79 |
|    | OVARC1001270 | F-OVARC1001270 | 0.48 |
|    | OVARC1001271 | F-OVARC1001271 | 0.67 |
|    | OVARC1001296 | F-OVARC1001296 | 0.60 |
| 25 | OVARC1001306 | F-OVARC1001306 | 0.44 |
|    | OVARC1001329 | F-OVARC1001329 | 0.91 |
|    | OVARC1001341 | F-OVARC1001341 | 0.82 |
|    | OVARC1001344 | F-OVARC1001344 | 0.94 |
| 30 | OVARC1001360 | F-OVARC1001360 | 0.94 |
|    | OVARC1001369 | F-OVARC1001369 | 0.36 |
|    | OVARC1001372 | F-OVARC1001372 | 0.63 |
|    | OVARC1001376 | F-OVARC1001376 | 0.81 |
|    | OVARC1001381 | F-OVARC1001381 | 0.78 |
| 35 | OVARC1001391 | F-OVARC1001391 | 0.33 |
|    | OVARC1001399 | F-OVARC1001399 | 0.67 |
|    | OVARC1001417 | F-OVARC1001417 | 0.94 |
|    | OVARC1001419 | F-OVARC1001419 | 0.34 |
| 40 | OVARC1001425 | F-OVARC1001425 | 0.73 |
|    | OVARC1001436 | F-OVARC1001436 | 0.59 |
|    | OVARC1001453 | F-OVARC1001453 | 0.45 |
|    | OVARC1001476 | F-OVARC1001476 | 0.85 |
| 45 | OVARC1001489 | F-OVARC1001489 | 0.35 |
|    | OVARC1001496 | F-OVARC1001496 | 0.90 |
|    | OVARC1001506 | F-OVARC1001506 | 0.59 |
|    | OVARC1001525 | F-OVARC1001525 | 0.87 |
| 50 | OVARC1001555 | F-OVARC1001555 | 0.67 |
|    | OVARC1001577 | F-OVARC1001577 | 0.94 |
|    | OVARC1001610 | F-OVARC1001610 | 0.38 |
|    | OVARC1001611 | F-OVARC1001611 | 0.34 |
|    | OVARC1001702 | F-OVARC1001702 | 0.88 |
| 55 | OVARC1001703 | F-OVARC1001703 | 0.76 |



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|    |              |                |      |
|----|--------------|----------------|------|
|    | OVARC1001711 | F-OVARC1001711 | 0.82 |
|    | OVARC1001713 | F-OVARC1001713 | 0.82 |
|    | OVARC1001731 | F-OVARC1001731 | 0.94 |
| 5  | OVARC1001762 | F-OVARC1001762 | 0.59 |
|    | OVARC1001766 | F-OVARC1001766 | 0.94 |
|    | OVARC1001767 | F-OVARC1001767 | 0.70 |
|    | OVARC1001768 | F-OVARC1001768 | 0.32 |
| 10 | OVARC1001791 | F-OVARC1001791 | 0.74 |
|    | OVARC1001802 | F-OVARC1001802 | 0.76 |
|    | OVARC1001809 | F-OVARC1001809 | 0.63 |
|    | OVARC1001820 | F-OVARC1001820 | 0.94 |
| 15 | OVARC1001828 | F-OVARC1001828 | 0.78 |
|    | OVARC1001861 | F-OVARC1001861 | 0.94 |
|    | OVARC1001873 | F-OVARC1001873 | 0.31 |
|    | OVARC1001879 | F-OVARC1001879 | 0.94 |
| 20 | OVARC1001880 | F-OVARC1001880 | 0.46 |
|    | OVARC1001916 | F-OVARC1001916 | 0.82 |
|    | OVARC1001942 | F-OVARC1001942 | 0.72 |
|    | OVARC1001943 | F-OVARC1001943 | 0.49 |
|    | OVARC1001949 | F-OVARC1001949 | 0.46 |
| 25 | OVARC1001950 | F-OVARC1001950 | 0.94 |
|    | OVARC1001987 | F-OVARC1001987 | 0.91 |
|    | OVARC1002050 | F-OVARC1002050 | 0.85 |
|    | OVARC1002082 | F-OVARC1002082 | 0.94 |
| 30 | OVARC1002107 | F-OVARC1002107 | 0.33 |
|    | OVARC1002112 | F-OVARC1002112 | 0.94 |
|    | OVARC1002127 | F-OVARC1002127 | 0.80 |
|    | OVARC1002138 | F-OVARC1002138 | 0.46 |
| 35 | OVARC1002156 | F-OVARC1002156 | 0.43 |
|    | OVARC1002158 | F-OVARC1002158 | 0.94 |
|    | OVARC1002165 | F-OVARC1002165 | 0.88 |
|    | OVARC1002182 | F-OVARC1002182 | 0.94 |
| 40 | PLACE1000004 | F-PLACE1000004 | 0.43 |
|    | PLACE1000005 | F-PLACE1000005 | 0.37 |
|    | PLACE1000007 | F-PLACE1000007 | 0.72 |
|    | PLACE1000014 | F-PLACE1000014 | 0.38 |
|    | PLACE1000048 | F-PLACE1000048 | 0.36 |
| 45 | PLACE1000050 | F-PLACE1000050 | 0.94 |
|    | PLACE1000061 | F-PLACE1000061 | 0.56 |
|    | PLACE1000066 | F-PLACE1000066 | 0.94 |
|    | PLACE1000081 | F-PLACE1000081 | 0.37 |
| 50 | PLACE1000133 | F-PLACE1000133 | 0.53 |
|    | PLACE1000142 | F-PLACE1000142 | 0.94 |
|    | PLACE1000184 | F-PLACE1000184 | 0.73 |
|    | PLACE1000185 | F-PLACE1000185 | 0.86 |
| 55 | PLACE1000213 | F-PLACE1000213 | 0.34 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | PLACE1000236 | F-PLACE1000236 | 0. 76 |
|    | PLACE1000246 | F-PLACE1000246 | 0. 91 |
| 5  | PLACE1000308 | F-PLACE1000308 | 0. 40 |
|    | PLACE1000347 | F-PLACE1000347 | 0. 48 |
|    | PLACE1000374 | F-PLACE1000374 | 0. 58 |
|    | PLACE1000380 | F-PLACE1000380 | 0. 94 |
|    | PLACE1000383 | F-PLACE1000383 | 0. 39 |
| 10 | PLACE1000401 | F-PLACE1000401 | 0. 94 |
|    | PLACE1000406 | F-PLACE1000406 | 0. 94 |
|    | PLACE1000420 | F-PLACE1000420 | 0. 82 |
|    | PLACE1000435 | F-PLACE1000435 | 0. 32 |
| 15 | PLACE1000444 | F-PLACE1000444 | 0. 41 |
|    | PLACE1000453 | F-PLACE1000453 | 0. 76 |
|    | PLACE1000492 | F-PLACE1000492 | 0. 65 |
|    | PLACE1000547 | F-PLACE1000547 | 0. 94 |
| 20 | PLACE1000562 | F-PLACE1000562 | 0. 94 |
|    | PLACE1000564 | F-PLACE1000564 | 0. 45 |
|    | PLACE1000588 | F-PLACE1000588 | 0. 67 |
|    | PLACE1000596 | F-PLACE1000596 | 0. 60 |
| 25 | PLACE1000610 | F-PLACE1000610 | 0. 94 |
|    | PLACE1000611 | F-PLACE1000611 | 0. 48 |
|    | PLACE1000636 | F-PLACE1000636 | 0. 92 |
|    | PLACE1000653 | F-PLACE1000653 | 0. 57 |
|    | PLACE1000656 | F-PLACE1000656 | 0. 94 |
| 30 | PLACE1000706 | F-PLACE1000706 | 0. 94 |
|    | PLACE1000712 | F-PLACE1000712 | 0. 78 |
|    | PLACE1000716 | F-PLACE1000716 | 0. 94 |
|    | PLACE1000748 | F-PLACE1000748 | 0. 52 |
| 35 | PLACE1000755 | F-PLACE1000755 | 0. 87 |
|    | PLACE1000769 | F-PLACE1000769 | 0. 94 |
|    | PLACE1000785 | F-PLACE1000785 | 0. 33 |
|    | PLACE1000786 | F-PLACE1000786 | 0. 88 |
| 40 | PLACE1000793 | F-PLACE1000793 | 0. 79 |
|    | PLACE1000798 | F-PLACE1000798 | 0. 59 |
|    | PLACE1000849 | F-PLACE1000849 | 0. 64 |
|    | PLACE1000856 | F-PLACE1000856 | 0. 40 |
| 45 | PLACE1000863 | F-PLACE1000863 | 0. 94 |
|    | PLACE1000909 | F-PLACE1000909 | 0. 94 |
|    | PLACE1000948 | F-PLACE1000948 | 0. 92 |
|    | PLACE1000972 | F-PLACE1000972 | 0. 73 |
| 50 | PLACE1000977 | F-PLACE1000977 | 0. 72 |
|    | PLACE1000987 | F-PLACE1000987 | 0. 93 |
|    | PLACE1001000 | F-PLACE1001000 | 0. 37 |
|    | PLACE1001010 | F-PLACE1001010 | 0. 50 |
|    | PLACE1001024 | F-PLACE1001024 | 0. 94 |
| 55 | PLACE1001036 | F-PLACE1001036 | 0. 51 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | PLACE1001054 | F-PLACE1001054 | 0.88 |
|    | PLACE1001062 | F-PLACE1001062 | 0.57 |
|    | PLACE1001092 | F-PLACE1001092 | 0.94 |
| 5  | PLACE1001104 | F-PLACE1001104 | 0.38 |
|    | PLACE1001168 | F-PLACE1001168 | 0.41 |
|    | PLACE1001171 | F-PLACE1001171 | 0.36 |
|    | PLACE1001185 | F-PLACE1001185 | 0.93 |
| 10 | PLACE1001238 | F-PLACE1001238 | 0.87 |
|    | PLACE1001241 | F-PLACE1001241 | 0.67 |
|    | PLACE1001257 | F-PLACE1001257 | 0.40 |
|    | PLACE1001280 | F-PLACE1001280 | 0.70 |
| 15 | PLACE1001294 | F-PLACE1001294 | 0.49 |
|    | PLACE1001304 | F-PLACE1001304 | 0.94 |
|    | PLACE1001311 | F-PLACE1001311 | 0.53 |
|    | PLACE1001351 | F-PLACE1001351 | 0.86 |
| 20 | PLACE1001366 | F-PLACE1001366 | 0.39 |
|    | PLACE1001383 | F-PLACE1001383 | 0.94 |
|    | PLACE1001387 | F-PLACE1001387 | 0.34 |
|    | PLACE1001399 | F-PLACE1001399 | 0.38 |
| 25 | PLACE1001412 | F-PLACE1001412 | 0.94 |
|    | PLACE1001456 | F-PLACE1001456 | 0.42 |
|    | PLACE1001484 | F-PLACE1001484 | 0.88 |
|    | PLACE1001503 | F-PLACE1001503 | 0.85 |
|    | PLACE1001545 | F-PLACE1001545 | 0.92 |
| 30 | PLACE1001551 | F-PLACE1001551 | 0.39 |
|    | PLACE1001570 | F-PLACE1001570 | 0.40 |
|    | PLACE1001602 | F-PLACE1001602 | 0.60 |
|    | PLACE1001608 | F-PLACE1001608 | 0.40 |
| 35 | PLACE1001610 | F-PLACE1001610 | 0.43 |
|    | PLACE1001632 | F-PLACE1001632 | 0.48 |
|    | PLACE1001634 | F-PLACE1001634 | 0.60 |
|    | PLACE1001692 | F-PLACE1001692 | 0.74 |
| 40 | PLACE1001729 | F-PLACE1001729 | 0.69 |
|    | PLACE1001739 | F-PLACE1001739 | 0.49 |
|    | PLACE1001740 | F-PLACE1001740 | 0.50 |
|    | PLACE1001761 | F-PLACE1001761 | 0.71 |
| 45 | PLACE1001771 | F-PLACE1001771 | 0.39 |
|    | PLACE1001781 | F-PLACE1001781 | 0.57 |
|    | PLACE1001810 | F-PLACE1001810 | 0.57 |
|    | PLACE1001817 | F-PLACE1001817 | 0.91 |
| 50 | PLACE1001844 | F-PLACE1001844 | 0.34 |
|    | PLACE1001869 | F-PLACE1001869 | 0.34 |
|    | PLACE1001912 | F-PLACE1001912 | 0.82 |
|    | PLACE1001920 | F-PLACE1001920 | 0.85 |
|    | PLACE1001928 | F-PLACE1001928 | 0.60 |
| 55 | PLACE1001983 | F-PLACE1001983 | 0.39 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | PLACE1001989 | F-PLACE1001989 | 0.74 |
|    | PLACE1002004 | F-PLACE1002004 | 0.70 |
|    | PLACE1002046 | F-PLACE1002046 | 0.81 |
| 5  | PLACE1002072 | F-PLACE1002072 | 0.94 |
|    | PLACE1002073 | F-PLACE1002073 | 0.70 |
|    | PLACE1002090 | F-PLACE1002090 | 0.64 |
|    | PLACE1002115 | F-PLACE1002115 | 0.60 |
| 10 | PLACE1002119 | F-PLACE1002119 | 0.71 |
|    | PLACE1002140 | F-PLACE1002140 | 0.94 |
|    | PLACE1002163 | F-PLACE1002163 | 0.56 |
|    | PLACE1002170 | F-PLACE1002170 | 0.60 |
| 15 | PLACE1002171 | F-PLACE1002171 | 0.72 |
|    | PLACE1002213 | F-PLACE1002213 | 0.35 |
|    | PLACE1002342 | F-PLACE1002342 | 0.40 |
|    | PLACE1002395 | F-PLACE1002395 | 0.87 |
| 20 | PLACE1002433 | F-PLACE1002433 | 0.73 |
|    | PLACE1002437 | F-PLACE1002437 | 0.46 |
|    | PLACE1002438 | F-PLACE1002438 | 0.41 |
|    | PLACE1002450 | F-PLACE1002450 | 0.48 |
| 25 | PLACE1002465 | F-PLACE1002465 | 0.34 |
|    | PLACE1002474 | F-PLACE1002474 | 0.89 |
|    | PLACE1002499 | F-PLACE1002499 | 0.94 |
|    | PLACE1002529 | F-PLACE1002529 | 0.45 |
| 30 | PLACE1002532 | F-PLACE1002532 | 0.76 |
|    | PLACE1002571 | F-PLACE1002571 | 0.40 |
|    | PLACE1002625 | F-PLACE1002625 | 0.36 |
|    | PLACE1002655 | F-PLACE1002655 | 0.41 |
|    | PLACE1002665 | F-PLACE1002665 | 0.80 |
| 35 | PLACE1002685 | F-PLACE1002685 | 0.31 |
|    | PLACE1002714 | F-PLACE1002714 | 0.90 |
|    | PLACE1002722 | F-PLACE1002722 | 0.43 |
|    | PLACE1002775 | F-PLACE1002775 | 0.94 |
| 40 | PLACE1002794 | F-PLACE1002794 | 0.90 |
|    | PLACE1002811 | F-PLACE1002811 | 0.88 |
|    | PLACE1002815 | F-PLACE1002815 | 0.40 |
|    | PLACE1002816 | F-PLACE1002816 | 0.73 |
| 45 | PLACE1002834 | F-PLACE1002834 | 0.41 |
|    | PLACE1002839 | F-PLACE1002839 | 0.73 |
|    | PLACE1002851 | F-PLACE1002851 | 0.90 |
|    | PLACE1002908 | F-PLACE1002908 | 0.94 |
| 50 | PLACE1002941 | F-PLACE1002941 | 0.33 |
|    | PLACE1002991 | F-PLACE1002991 | 0.39 |
|    | PLACE1002993 | F-PLACE1002993 | 0.94 |
|    | PLACE1002996 | F-PLACE1002996 | 0.40 |
|    | PLACE1003025 | F-PLACE1003025 | 0.77 |
| 55 | PLACE1003027 | F-PLACE1003027 | 0.54 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | PLACE1003044 | F-PLACE1003044 | 0.71 |
|    | PLACE1003045 | F-PLACE1003045 | 0.89 |
|    | PLACE1003092 | F-PLACE1003092 | 0.59 |
| 5  | PLACE1003100 | F-PLACE1003100 | 0.38 |
|    | PLACE1003108 | F-PLACE1003108 | 0.94 |
|    | PLACE1003136 | F-PLACE1003136 | 0.87 |
|    | PLACE1003145 | F-PLACE1003145 | 0.94 |
| 10 | PLACE1003174 | F-PLACE1003174 | 0.46 |
|    | PLACE1003176 | F-PLACE1003176 | 0.48 |
|    | PLACE1003190 | F-PLACE1003190 | 0.57 |
|    | PLACE1003200 | F-PLACE1003200 | 0.47 |
| 15 | PLACE1003249 | F-PLACE1003249 | 0.33 |
|    | PLACE1003256 | F-PLACE1003256 | 0.57 |
|    | PLACE1003296 | F-PLACE1003296 | 0.41 |
|    | PLACE1003302 | F-PLACE1003302 | 0.94 |
| 20 | PLACE1003334 | F-PLACE1003334 | 0.78 |
|    | PLACE1003342 | F-PLACE1003342 | 0.34 |
|    | PLACE1003353 | F-PLACE1003353 | 0.71 |
|    | PLACE1003366 | F-PLACE1003366 | 0.66 |
|    | PLACE1003369 | F-PLACE1003369 | 0.91 |
| 25 | PLACE1003383 | F-PLACE1003383 | 0.70 |
|    | PLACE1003394 | F-PLACE1003394 | 0.94 |
|    | PLACE1003454 | F-PLACE1003454 | 0.94 |
|    | PLACE1003493 | F-PLACE1003493 | 0.93 |
| 30 | PLACE1003537 | F-PLACE1003537 | 0.94 |
|    | PLACE1003553 | F-PLACE1003553 | 0.34 |
|    | PLACE1003592 | F-PLACE1003592 | 0.33 |
|    | PLACE1003596 | F-PLACE1003596 | 0.89 |
| 35 | PLACE1003602 | F-PLACE1003602 | 0.94 |
|    | PLACE1003605 | F-PLACE1003605 | 0.94 |
|    | PLACE1003611 | F-PLACE1003611 | 0.80 |
|    | PLACE1003625 | F-PLACE1003625 | 0.39 |
| 40 | PLACE1003669 | F-PLACE1003669 | 0.79 |
|    | PLACE1003704 | F-PLACE1003704 | 0.43 |
|    | PLACE1003709 | F-PLACE1003709 | 0.90 |
|    | PLACE1003711 | F-PLACE1003711 | 0.74 |
|    | PLACE1003723 | F-PLACE1003723 | 0.63 |
| 45 | PLACE1003738 | F-PLACE1003738 | 0.91 |
|    | PLACE1003762 | F-PLACE1003762 | 0.94 |
|    | PLACE1003771 | F-PLACE1003771 | 0.56 |
|    | PLACE1003783 | F-PLACE1003783 | 0.39 |
| 50 | PLACE1003784 | F-PLACE1003784 | 0.61 |
|    | PLACE1003795 | F-PLACE1003795 | 0.32 |
|    | PLACE1003870 | F-PLACE1003870 | 0.94 |
|    | PLACE1003885 | F-PLACE1003885 | 0.94 |
| 55 | PLACE1003886 | F-PLACE1003886 | 0.94 |

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|----|--------------|----------------|------|
|    | PLACE1003888 | F-PLACE1003888 | 0.36 |
|    | PLACE1003892 | F-PLACE1003892 | 0.92 |
| 5  | PLACE1003903 | F-PLACE1003903 | 0.68 |
|    | PLACE1003915 | F-PLACE1003915 | 0.54 |
|    | PLACE1003923 | F-PLACE1003923 | 0.52 |
|    | PLACE1003936 | F-PLACE1003936 | 0.67 |
|    | PLACE1003968 | F-PLACE1003968 | 0.59 |
| 10 | PLACE1004103 | F-PLACE1004103 | 0.94 |
|    | PLACE1004104 | F-PLACE1004104 | 0.44 |
|    | PLACE1004114 | F-PLACE1004114 | 0.91 |
|    | PLACE1004128 | F-PLACE1004128 | 0.72 |
| 15 | PLACE1004149 | F-PLACE1004149 | 0.41 |
|    | PLACE1004156 | F-PLACE1004156 | 0.50 |
|    | PLACE1004161 | F-PLACE1004161 | 0.77 |
|    | PLACE1004183 | F-PLACE1004183 | 0.62 |
| 20 | PLACE1004197 | F-PLACE1004197 | 0.39 |
|    | PLACE1004203 | F-PLACE1004203 | 0.94 |
|    | PLACE1004258 | F-PLACE1004258 | 0.46 |
|    | PLACE1004270 | F-PLACE1004270 | 0.65 |
| 25 | PLACE1004277 | F-PLACE1004277 | 0.86 |
|    | PLACE1004289 | F-PLACE1004289 | 0.79 |
|    | PLACE1004302 | F-PLACE1004302 | 0.57 |
|    | PLACE1004316 | F-PLACE1004316 | 0.64 |
| 30 | PLACE1004358 | F-PLACE1004358 | 0.85 |
|    | PLACE1004376 | F-PLACE1004376 | 0.64 |
|    | PLACE1004388 | F-PLACE1004388 | 0.94 |
|    | PLACE1004405 | F-PLACE1004405 | 0.82 |
|    | PLACE1004428 | F-PLACE1004428 | 0.68 |
| 35 | PLACE1004437 | F-PLACE1004437 | 0.94 |
|    | PLACE1004451 | F-PLACE1004451 | 0.39 |
|    | PLACE1004460 | F-PLACE1004460 | 0.92 |
|    | PLACE1004473 | F-PLACE1004473 | 0.94 |
| 40 | PLACE1004510 | F-PLACE1004510 | 0.94 |
|    | PLACE1004516 | F-PLACE1004516 | 0.58 |
|    | PLACE1004548 | F-PLACE1004548 | 0.59 |
|    | PLACE1004550 | F-PLACE1004550 | 0.94 |
| 45 | PLACE1004564 | F-PLACE1004564 | 0.53 |
|    | PLACE1004629 | F-PLACE1004629 | 0.34 |
|    | PLACE1004645 | F-PLACE1004645 | 0.59 |
|    | PLACE1004646 | F-PLACE1004646 | 0.35 |
|    | PLACE1004664 | F-PLACE1004664 | 0.31 |
| 50 | PLACE1004672 | F-PLACE1004672 | 0.83 |
|    | PLACE1004674 | F-PLACE1004674 | 0.90 |
|    | PLACE1004686 | F-PLACE1004686 | 0.31 |
|    | PLACE1004691 | F-PLACE1004691 | 0.89 |
| 55 | PLACE1004722 | F-PLACE1004722 | 0.48 |

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|----|--------------|----------------|-------|
|    | PLACE1004736 | F-PLACE1004736 | 0. 80 |
|    | PLACE1004740 | F-PLACE1004740 | 0. 34 |
| 5  | PLACE1004743 | F-PLACE1004743 | 0. 70 |
|    | PLACE1004751 | F-PLACE1004751 | 0. 49 |
|    | PLACE1004777 | F-PLACE1004777 | 0. 72 |
|    | PLACE1004804 | F-PLACE1004804 | 0. 46 |
| 10 | PLACE1004814 | F-PLACE1004814 | 0. 70 |
|    | PLACE1004824 | F-PLACE1004824 | 0. 63 |
|    | PLACE1004868 | F-PLACE1004868 | 0. 94 |
|    | PLACE1004885 | F-PLACE1004885 | 0. 63 |
| 15 | PLACE1004902 | F-PLACE1004902 | 0. 56 |
|    | PLACE1004918 | F-PLACE1004918 | 0. 85 |
|    | PLACE1004930 | F-PLACE1004930 | 0. 83 |
|    | PLACE1004937 | F-PLACE1004937 | 0. 46 |
|    | PLACE1004969 | F-PLACE1004969 | 0. 62 |
| 20 | PLACE1004982 | F-PLACE1004982 | 0. 61 |
|    | PLACE1005026 | F-PLACE1005026 | 0. 81 |
|    | PLACE1005027 | F-PLACE1005027 | 0. 91 |
|    | PLACE1005046 | F-PLACE1005046 | 0. 31 |
| 25 | PLACE1005055 | F-PLACE1005055 | 0. 57 |
|    | PLACE1005066 | F-PLACE1005066 | 0. 68 |
|    | PLACE1005101 | F-PLACE1005101 | 0. 94 |
|    | PLACE1005102 | F-PLACE1005102 | 0. 94 |
| 30 | PLACE1005181 | F-PLACE1005181 | 0. 94 |
|    | PLACE1005187 | F-PLACE1005187 | 0. 94 |
|    | PLACE1005206 | F-PLACE1005206 | 0. 67 |
|    | PLACE1005232 | F-PLACE1005232 | 0. 72 |
| 35 | PLACE1005243 | F-PLACE1005243 | 0. 81 |
|    | PLACE1005261 | F-PLACE1005261 | 0. 75 |
|    | PLACE1005266 | F-PLACE1005266 | 0. 55 |
|    | PLACE1005277 | F-PLACE1005277 | 0. 43 |
|    | PLACE1005287 | F-PLACE1005287 | 0. 77 |
| 40 | PLACE1005305 | F-PLACE1005305 | 0. 94 |
|    | PLACE1005308 | F-PLACE1005308 | 0. 46 |
|    | PLACE1005313 | F-PLACE1005313 | 0. 94 |
|    | PLACE1005327 | F-PLACE1005327 | 0. 82 |
| 45 | PLACE1005331 | F-PLACE1005331 | 0. 94 |
|    | PLACE1005335 | F-PLACE1005335 | 0. 94 |
|    | PLACE1005373 | F-PLACE1005373 | 0. 71 |
|    | PLACE1005374 | F-PLACE1005374 | 0. 82 |
| 50 | PLACE1005480 | F-PLACE1005480 | 0. 43 |
|    | PLACE1005481 | F-PLACE1005481 | 0. 42 |
|    | PLACE1005494 | F-PLACE1005494 | 0. 34 |
|    | PLACE1005530 | F-PLACE1005530 | 0. 94 |
| 55 | PLACE1005550 | F-PLACE1005550 | 0. 86 |
|    | PLACE1005554 | F-PLACE1005554 | 0. 34 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | PLACE1005557 | F-PLACE1005557 | 0.80 |
|    | PLACE1005595 | F-PLACE1005595 | 0.69 |
| 5  | PLACE1005603 | F-PLACE1005603 | 0.92 |
|    | PLACE1005623 | F-PLACE1005623 | 0.68 |
|    | PLACE1005630 | F-PLACE1005630 | 0.58 |
|    | PLACE1005646 | F-PLACE1005646 | 0.31 |
| 10 | PLACE1005656 | F-PLACE1005656 | 0.85 |
|    | PLACE1005698 | F-PLACE1005698 | 0.91 |
|    | PLACE1005727 | F-PLACE1005727 | 0.94 |
|    | PLACE1005739 | F-PLACE1005739 | 0.87 |
|    | PLACE1005755 | F-PLACE1005755 | 0.32 |
| 15 | PLACE1005763 | F-PLACE1005763 | 0.74 |
|    | PLACE1005799 | F-PLACE1005799 | 0.47 |
|    | PLACE1005803 | F-PLACE1005803 | 0.88 |
|    | PLACE1005804 | F-PLACE1005804 | 0.36 |
| 20 | PLACE1005813 | F-PLACE1005813 | 0.76 |
|    | PLACE1005828 | F-PLACE1005828 | 0.43 |
|    | PLACE1005834 | F-PLACE1005834 | 0.89 |
|    | PLACE1005851 | F-PLACE1005851 | 0.39 |
| 25 | PLACE1005876 | F-PLACE1005876 | 0.51 |
|    | PLACE1005890 | F-PLACE1005890 | 0.81 |
|    | PLACE1005921 | F-PLACE1005921 | 0.90 |
|    | PLACE1005923 | F-PLACE1005923 | 0.70 |
| 30 | PLACE1005925 | F-PLACE1005925 | 0.55 |
|    | PLACE1005934 | F-PLACE1005934 | 0.94 |
|    | PLACE1005936 | F-PLACE1005936 | 0.41 |
|    | PLACE1005951 | F-PLACE1005951 | 0.34 |
| 35 | PLACE1005953 | F-PLACE1005953 | 0.31 |
|    | PLACE1005955 | F-PLACE1005955 | 0.89 |
|    | PLACE1005966 | F-PLACE1005966 | 0.73 |
|    | PLACE1005990 | F-PLACE1005990 | 0.37 |
| 40 | PLACE1006011 | F-PLACE1006011 | 0.94 |
|    | PLACE1006037 | F-PLACE1006037 | 0.65 |
|    | PLACE1006040 | F-PLACE1006040 | 0.94 |
|    | PLACE1006119 | F-PLACE1006119 | 0.52 |
|    | PLACE1006139 | F-PLACE1006139 | 0.94 |
| 45 | PLACE1006157 | F-PLACE1006157 | 0.34 |
|    | PLACE1006159 | F-PLACE1006159 | 0.50 |
|    | PLACE1006167 | F-PLACE1006167 | 0.94 |
|    | PLACE1006170 | F-PLACE1006170 | 0.94 |
| 50 | PLACE1006195 | F-PLACE1006195 | 0.31 |
|    | PLACE1006196 | F-PLACE1006196 | 0.84 |
|    | PLACE1006225 | F-PLACE1006225 | 0.87 |
|    | PLACE1006236 | F-PLACE1006236 | 0.92 |
| 55 | PLACE1006239 | F-PLACE1006239 | 0.53 |
|    | PLACE1006246 | F-PLACE1006246 | 0.44 |



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|----|--------------|----------------|------|
|    | PLACE1006248 | F-PLACE1006248 | 0.49 |
|    | PLACE1006325 | F-PLACE1006325 | 0.74 |
| 5  | PLACE1006335 | F-PLACE1006335 | 0.82 |
|    | PLACE1006357 | F-PLACE1006357 | 0.33 |
|    | PLACE1006385 | F-PLACE1006385 | 0.54 |
|    | PLACE1006412 | F-PLACE1006412 | 0.79 |
|    | PLACE1006414 | F-PLACE1006414 | 0.52 |
| 10 | PLACE1006438 | F-PLACE1006438 | 0.94 |
|    | PLACE1006445 | F-PLACE1006445 | 0.37 |
|    | PLACE1006469 | F-PLACE1006469 | 0.85 |
|    | PLACE1006482 | F-PLACE1006482 | 0.94 |
| 15 | PLACE1006488 | F-PLACE1006488 | 0.94 |
|    | PLACE1006492 | F-PLACE1006492 | 0.32 |
|    | PLACE1006531 | F-PLACE1006531 | 0.45 |
|    | PLACE1006552 | F-PLACE1006552 | 0.42 |
| 20 | PLACE1006598 | F-PLACE1006598 | 0.33 |
|    | PLACE1006615 | F-PLACE1006615 | 0.89 |
|    | PLACE1006626 | F-PLACE1006626 | 0.69 |
|    | PLACE1006673 | F-PLACE1006673 | 0.61 |
|    | PLACE1006678 | F-PLACE1006678 | 0.53 |
| 25 | PLACE1006704 | F-PLACE1006704 | 0.47 |
|    | PLACE1006731 | F-PLACE1006731 | 0.72 |
|    | PLACE1006782 | F-PLACE1006782 | 0.68 |
|    | PLACE1006819 | F-PLACE1006819 | 0.57 |
| 30 | PLACE1006829 | F-PLACE1006829 | 0.47 |
|    | PLACE1006883 | F-PLACE1006883 | 0.88 |
|    | PLACE1006901 | F-PLACE1006901 | 0.43 |
|    | PLACE1006917 | F-PLACE1006917 | 0.56 |
| 35 | PLACE1006932 | F-PLACE1006932 | 0.45 |
|    | PLACE1006935 | F-PLACE1006935 | 0.58 |
|    | PLACE1006956 | F-PLACE1006956 | 0.77 |
|    | PLACE1006958 | F-PLACE1006958 | 0.75 |
| 40 | PLACE1006961 | F-PLACE1006961 | 0.34 |
|    | PLACE1006962 | F-PLACE1006962 | 0.94 |
|    | PLACE1006966 | F-PLACE1006966 | 0.56 |
|    | PLACE1006989 | F-PLACE1006989 | 0.47 |
| 45 | PLACE1007014 | F-PLACE1007014 | 0.94 |
|    | PLACE1007021 | F-PLACE1007021 | 0.74 |
|    | PLACE1007053 | F-PLACE1007053 | 0.73 |
|    | PLACE1007068 | F-PLACE1007068 | 0.43 |
|    | PLACE1007105 | F-PLACE1007105 | 0.88 |
| 50 | PLACE1007112 | F-PLACE1007112 | 0.82 |
|    | PLACE1007178 | F-PLACE1007178 | 0.91 |
|    | PLACE1007226 | F-PLACE1007226 | 0.79 |
|    | PLACE1007238 | F-PLACE1007238 | 0.94 |
| 55 | PLACE1007239 | F-PLACE1007239 | 0.94 |

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|    | PLACE1007242 | F-PLACE1007242 | 0.48 |
|    | PLACE1007243 | F-PLACE1007243 | 0.77 |
| 5  | PLACE1007257 | F-PLACE1007257 | 0.54 |
|    | PLACE1007274 | F-PLACE1007274 | 0.94 |
|    | PLACE1007282 | F-PLACE1007282 | 0.94 |
|    | PLACE1007301 | F-PLACE1007301 | 0.34 |
| 10 | PLACE1007317 | F-PLACE1007317 | 0.43 |
|    | PLACE1007342 | F-PLACE1007342 | 0.72 |
|    | PLACE1007346 | F-PLACE1007346 | 0.92 |
|    | PLACE1007367 | F-PLACE1007367 | 0.43 |
|    | PLACE1007375 | F-PLACE1007375 | 0.85 |
| 15 | PLACE1007386 | F-PLACE1007386 | 0.58 |
|    | PLACE1007402 | F-PLACE1007402 | 0.74 |
|    | PLACE1007409 | F-PLACE1007409 | 0.39 |
|    | PLACE1007416 | F-PLACE1007416 | 0.80 |
| 20 | PLACE1007450 | F-PLACE1007450 | 0.41 |
|    | PLACE1007452 | F-PLACE1007452 | 0.68 |
|    | PLACE1007454 | F-PLACE1007454 | 0.39 |
|    | PLACE1007460 | F-PLACE1007460 | 0.58 |
| 25 | PLACE1007484 | F-PLACE1007484 | 0.94 |
|    | PLACE1007488 | F-PLACE1007488 | 0.50 |
|    | PLACE1007507 | F-PLACE1007507 | 0.44 |
|    | PLACE1007511 | F-PLACE1007511 | 0.86 |
| 30 | PLACE1007524 | F-PLACE1007524 | 0.66 |
|    | PLACE1007537 | F-PLACE1007537 | 0.93 |
|    | PLACE1007544 | F-PLACE1007544 | 0.94 |
|    | PLACE1007547 | F-PLACE1007547 | 0.65 |
|    | PLACE1007583 | F-PLACE1007583 | 0.87 |
| 35 | PLACE1007598 | F-PLACE1007598 | 0.39 |
|    | PLACE1007618 | F-PLACE1007618 | 0.62 |
|    | PLACE1007621 | F-PLACE1007621 | 0.63 |
|    | PLACE1007632 | F-PLACE1007632 | 0.75 |
| 40 | PLACE1007645 | F-PLACE1007645 | 0.94 |
|    | PLACE1007649 | F-PLACE1007649 | 0.56 |
|    | PLACE1007688 | F-PLACE1007688 | 0.94 |
|    | PLACE1007690 | F-PLACE1007690 | 0.44 |
| 45 | PLACE1007697 | F-PLACE1007697 | 0.93 |
|    | PLACE1007705 | F-PLACE1007705 | 0.61 |
|    | PLACE1007706 | F-PLACE1007706 | 0.47 |
|    | PLACE1007725 | F-PLACE1007725 | 0.61 |
|    | PLACE1007729 | F-PLACE1007729 | 0.53 |
| 50 | PLACE1007730 | F-PLACE1007730 | 0.31 |
|    | PLACE1007746 | F-PLACE1007746 | 0.81 |
|    | PLACE1007791 | F-PLACE1007791 | 0.46 |
|    | PLACE1007810 | F-PLACE1007810 | 0.73 |
| 55 | PLACE1007843 | F-PLACE1007843 | 0.31 |

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|----|--------------|----------------|------|
|    | PLACE1007846 | F-PLACE1007846 | 0.38 |
|    | PLACE1007858 | F-PLACE1007858 | 0.79 |
| 5  | PLACE1007897 | F-PLACE1007897 | 0.94 |
|    | PLACE1007908 | F-PLACE1007908 | 0.94 |
|    | PLACE1007946 | F-PLACE1007946 | 0.52 |
|    | PLACE1007954 | F-PLACE1007954 | 0.43 |
| 10 | PLACE1007955 | F-PLACE1007955 | 0.41 |
|    | PLACE1007958 | F-PLACE1007958 | 0.37 |
|    | PLACE1007969 | F-PLACE1007969 | 0.87 |
|    | PLACE1007990 | F-PLACE1007990 | 0.94 |
| 15 | PLACE1008000 | F-PLACE1008000 | 0.94 |
|    | PLACE1008002 | F-PLACE1008002 | 0.93 |
|    | PLACE1008044 | F-PLACE1008044 | 0.72 |
|    | PLACE1008095 | F-PLACE1008095 | 0.94 |
| 20 | PLACE1008122 | F-PLACE1008122 | 0.94 |
|    | PLACE1008129 | F-PLACE1008129 | 0.80 |
|    | PLACE1008132 | F-PLACE1008132 | 0.37 |
|    | PLACE1008177 | F-PLACE1008177 | 0.74 |
|    | PLACE1008198 | F-PLACE1008198 | 0.94 |
| 25 | PLACE1008209 | F-PLACE1008209 | 0.54 |
|    | PLACE1008273 | F-PLACE1008273 | 0.94 |
|    | PLACE1008275 | F-PLACE1008275 | 0.82 |
|    | PLACE1008280 | F-PLACE1008280 | 0.34 |
| 30 | PLACE1008309 | F-PLACE1008309 | 0.90 |
|    | PLACE1008329 | F-PLACE1008329 | 0.38 |
|    | PLACE1008356 | F-PLACE1008356 | 0.93 |
|    | PLACE1008368 | F-PLACE1008368 | 0.43 |
|    | PLACE1008398 | F-PLACE1008398 | 0.78 |
| 35 | PLACE1008401 | F-PLACE1008401 | 0.81 |
|    | PLACE1008402 | F-PLACE1008402 | 0.88 |
|    | PLACE1008429 | F-PLACE1008429 | 0.39 |
| 40 | PLACE1008457 | F-PLACE1008457 | 0.77 |
|    | PLACE1008465 | F-PLACE1008465 | 0.94 |
|    | PLACE1008488 | F-PLACE1008488 | 0.42 |
|    | PLACE1008524 | F-PLACE1008524 | 0.41 |
|    | PLACE1008531 | F-PLACE1008531 | 0.94 |
| 45 | PLACE1008532 | F-PLACE1008532 | 0.61 |
|    | PLACE1008533 | F-PLACE1008533 | 0.45 |
|    | PLACE1008568 | F-PLACE1008568 | 0.65 |
|    | PLACE1008603 | F-PLACE1008603 | 0.42 |
| 50 | PLACE1008626 | F-PLACE1008626 | 0.94 |
|    | PLACE1008627 | F-PLACE1008627 | 0.72 |
|    | PLACE1008629 | F-PLACE1008629 | 0.33 |
|    | PLACE1008650 | F-PLACE1008650 | 0.79 |
| 55 | PLACE1008693 | F-PLACE1008693 | 0.32 |
|    | PLACE1008696 | F-PLACE1008696 | 0.39 |

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|----|--------------|----------------|-------|
|    | PLACE1008790 | F-PLACE1008790 | 0. 81 |
|    | PLACE1008808 | F-PLACE1008808 | 0. 51 |
| 5  | PLACE1008813 | F-PLACE1008813 | 0. 36 |
|    | PLACE1008854 | F-PLACE1008854 | 0. 81 |
|    | PLACE1008867 | F-PLACE1008867 | 0. 34 |
|    | PLACE1008887 | F-PLACE1008887 | 0. 49 |
| 10 | PLACE1008902 | F-PLACE1008902 | 0. 91 |
|    | PLACE1008925 | F-PLACE1008925 | 0. 94 |
|    | PLACE1008934 | F-PLACE1008934 | 0. 70 |
|    | PLACE1009027 | F-PLACE1009027 | 0. 32 |
|    | PLACE1009045 | F-PLACE1009045 | 0. 42 |
| 15 | PLACE1009060 | F-PLACE1009060 | 0. 69 |
|    | PLACE1009090 | F-PLACE1009090 | 0. 46 |
|    | PLACE1009091 | F-PLACE1009091 | 0. 90 |
|    | PLACE1009094 | F-PLACE1009094 | 0. 44 |
| 20 | PLACE1009099 | F-PLACE1009099 | 0. 56 |
|    | PLACE1009110 | F-PLACE1009110 | 0. 84 |
|    | PLACE1009111 | F-PLACE1009111 | 0. 80 |
|    | PLACE1009113 | F-PLACE1009113 | 0. 88 |
| 25 | PLACE1009130 | F-PLACE1009130 | 0. 60 |
|    | PLACE1009158 | F-PLACE1009158 | 0. 41 |
|    | PLACE1009166 | F-PLACE1009166 | 0. 94 |
|    | PLACE1009174 | F-PLACE1009174 | 0. 38 |
| 30 | PLACE1009186 | F-PLACE1009186 | 0. 59 |
|    | PLACE1009190 | F-PLACE1009190 | 0. 66 |
|    | PLACE1009230 | F-PLACE1009230 | 0. 87 |
|    | PLACE1009298 | F-PLACE1009298 | 0. 41 |
|    | PLACE1009319 | F-PLACE1009319 | 0. 53 |
| 35 | PLACE1009328 | F-PLACE1009328 | 0. 66 |
|    | PLACE1009335 | F-PLACE1009335 | 0. 47 |
|    | PLACE1009338 | F-PLACE1009338 | 0. 70 |
|    | PLACE1009368 | F-PLACE1009368 | 0. 94 |
| 40 | PLACE1009375 | F-PLACE1009375 | 0. 76 |
|    | PLACE1009388 | F-PLACE1009388 | 0. 46 |
|    | PLACE1009404 | F-PLACE1009404 | 0. 72 |
|    | PLACE1009434 | F-PLACE1009434 | 0. 50 |
| 45 | PLACE1009443 | F-PLACE1009443 | 0. 90 |
|    | PLACE1009444 | F-PLACE1009444 | 0. 33 |
|    | PLACE1009459 | F-PLACE1009459 | 0. 94 |
|    | PLACE1009468 | F-PLACE1009468 | 0. 88 |
| 50 | PLACE1009476 | F-PLACE1009476 | 0. 84 |
|    | PLACE1009524 | F-PLACE1009524 | 0. 88 |
|    | PLACE1009542 | F-PLACE1009542 | 0. 55 |
|    | PLACE1009571 | F-PLACE1009571 | 0. 61 |
|    | PLACE1009581 | F-PLACE1009581 | 0. 94 |
| 55 | PLACE1009596 | F-PLACE1009596 | 0. 44 |

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|    | PLACE1009607 | F-PLACE1009607 | 0.47 |
|    | PLACE1009622 | F-PLACE1009622 | 0.65 |
| 5  | PLACE1009659 | F-PLACE1009659 | 0.36 |
|    | PLACE1009665 | F-PLACE1009665 | 0.43 |
|    | PLACE1009670 | F-PLACE1009670 | 0.33 |
|    | PLACE1009708 | F-PLACE1009708 | 0.80 |
|    | PLACE1009721 | F-PLACE1009721 | 0.81 |
| 10 | PLACE1009731 | F-PLACE1009731 | 0.47 |
|    | PLACE1009763 | F-PLACE1009763 | 0.94 |
|    | PLACE1009794 | F-PLACE1009794 | 0.33 |
|    | PLACE1009798 | F-PLACE1009798 | 0.34 |
| 15 | PLACE1009845 | F-PLACE1009845 | 0.66 |
|    | PLACE1009861 | F-PLACE1009861 | 0.72 |
|    | PLACE1009886 | F-PLACE1009886 | 0.63 |
|    | PLACE1009908 | F-PLACE1009908 | 0.92 |
| 20 | PLACE1009921 | F-PLACE1009921 | 0.70 |
|    | PLACE1009971 | F-PLACE1009971 | 0.40 |
|    | PLACE1009992 | F-PLACE1009992 | 0.89 |
|    | PLACE1009995 | F-PLACE1009995 | 0.88 |
| 25 | PLACE1009997 | F-PLACE1009997 | 0.41 |
|    | PLACE1010023 | F-PLACE1010023 | 0.90 |
|    | PLACE1010031 | F-PLACE1010031 | 0.71 |
|    | PLACE1010053 | F-PLACE1010053 | 0.51 |
| 30 | PLACE1010074 | F-PLACE1010074 | 0.75 |
|    | PLACE1010076 | F-PLACE1010076 | 0.53 |
|    | PLACE1010096 | F-PLACE1010096 | 0.44 |
|    | PLACE1010102 | F-PLACE1010102 | 0.77 |
|    | PLACE1010105 | F-PLACE1010105 | 0.58 |
| 35 | PLACE1010106 | F-PLACE1010106 | 0.39 |
|    | PLACE1010134 | F-PLACE1010134 | 0.85 |
|    | PLACE1010148 | F-PLACE1010148 | 0.32 |
|    | PLACE1010152 | F-PLACE1010152 | 0.94 |
| 40 | PLACE1010194 | F-PLACE1010194 | 0.94 |
|    | PLACE1010202 | F-PLACE1010202 | 0.33 |
|    | PLACE1010261 | F-PLACE1010261 | 0.36 |
|    | PLACE1010274 | F-PLACE1010274 | 0.94 |
| 45 | PLACE1010293 | F-PLACE1010293 | 0.55 |
|    | PLACE1010310 | F-PLACE1010310 | 0.41 |
|    | PLACE1010321 | F-PLACE1010321 | 0.40 |
|    | PLACE1010324 | F-PLACE1010324 | 0.40 |
|    | PLACE1010329 | F-PLACE1010329 | 0.36 |
| 50 | PLACE1010362 | F-PLACE1010362 | 0.34 |
|    | PLACE1010364 | F-PLACE1010364 | 0.37 |
|    | PLACE1010383 | F-PLACE1010383 | 0.94 |
|    | PLACE1010401 | F-PLACE1010401 | 0.53 |
| 55 | PLACE1010481 | F-PLACE1010481 | 0.74 |

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|----|--------------|----------------|------|
|    | PLACE1010491 | F-PLACE1010491 | 0.31 |
|    | PLACE1010492 | F-PLACE1010492 | 0.39 |
|    | PLACE1010522 | F-PLACE1010522 | 0.92 |
| 5  | PLACE1010529 | F-PLACE1010529 | 0.65 |
|    | PLACE1010547 | F-PLACE1010547 | 0.82 |
|    | PLACE1010580 | F-PLACE1010580 | 0.72 |
|    | PLACE1010599 | F-PLACE1010599 | 0.83 |
| 10 | PLACE1010616 | F-PLACE1010616 | 0.54 |
|    | PLACE1010622 | F-PLACE1010622 | 0.92 |
|    | PLACE1010629 | F-PLACE1010629 | 0.94 |
|    | PLACE1010630 | F-PLACE1010630 | 0.37 |
| 15 | PLACE1010661 | F-PLACE1010661 | 0.56 |
|    | PLACE1010714 | F-PLACE1010714 | 0.68 |
|    | PLACE1010720 | F-PLACE1010720 | 0.90 |
|    | PLACE1010743 | F-PLACE1010743 | 0.75 |
| 20 | PLACE1010761 | F-PLACE1010761 | 0.69 |
|    | PLACE1010771 | F-PLACE1010771 | 0.94 |
|    | PLACE1010786 | F-PLACE1010786 | 0.80 |
|    | PLACE1010800 | F-PLACE1010800 | 0.41 |
| 25 | PLACE1010811 | F-PLACE1010811 | 0.94 |
|    | PLACE1010833 | F-PLACE1010833 | 0.94 |
|    | PLACE1010856 | F-PLACE1010856 | 0.37 |
|    | PLACE1010857 | F-PLACE1010857 | 0.54 |
|    | PLACE1010870 | F-PLACE1010870 | 0.50 |
| 30 | PLACE1010877 | F-PLACE1010877 | 0.77 |
|    | PLACE1010900 | F-PLACE1010900 | 0.70 |
|    | PLACE1010917 | F-PLACE1010917 | 0.94 |
|    | PLACE1010925 | F-PLACE1010925 | 0.79 |
| 35 | PLACE1010926 | F-PLACE1010926 | 0.94 |
|    | PLACE1010942 | F-PLACE1010942 | 0.36 |
|    | PLACE1010944 | F-PLACE1010944 | 0.61 |
|    | PLACE1010954 | F-PLACE1010954 | 0.83 |
| 40 | PLACE1010960 | F-PLACE1010960 | 0.38 |
|    | PLACE1010965 | F-PLACE1010965 | 0.68 |
|    | PLACE1011026 | F-PLACE1011026 | 0.38 |
|    | PLACE1011041 | F-PLACE1011041 | 0.94 |
| 45 | PLACE1011046 | F-PLACE1011046 | 0.85 |
|    | PLACE1011054 | F-PLACE1011054 | 0.65 |
|    | PLACE1011056 | F-PLACE1011056 | 0.82 |
|    | PLACE1011090 | F-PLACE1011090 | 0.94 |
| 50 | PLACE1011114 | F-PLACE1011114 | 0.94 |
|    | PLACE1011160 | F-PLACE1011160 | 0.62 |
|    | PLACE1011214 | F-PLACE1011214 | 0.40 |
|    | PLACE1011219 | F-PLACE1011219 | 0.48 |
| 55 | PLACE1011221 | F-PLACE1011221 | 0.94 |
|    | PLACE1011229 | F-PLACE1011229 | 0.46 |

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|----|--------------|----------------|------|
|    | PLACE1011263 | F-PLACE1011263 | 0.94 |
|    | PLACE1011273 | F-PLACE1011273 | 0.32 |
| 5  | PLACE1011291 | F-PLACE1011291 | 0.55 |
|    | PLACE1011310 | F-PLACE1011310 | 0.74 |
|    | PLACE1011325 | F-PLACE1011325 | 0.39 |
|    | PLACE1011332 | F-PLACE1011332 | 0.74 |
|    | PLACE1011371 | F-PLACE1011371 | 0.32 |
| 10 | PLACE1011399 | F-PLACE1011399 | 0.89 |
|    | PLACE1011433 | F-PLACE1011433 | 0.33 |
|    | PLACE1011472 | F-PLACE1011472 | 0.59 |
|    | PLACE1011477 | F-PLACE1011477 | 0.80 |
| 15 | PLACE1011563 | F-PLACE1011563 | 0.83 |
|    | PLACE1011586 | F-PLACE1011586 | 0.82 |
|    | PLACE1011635 | F-PLACE1011635 | 0.62 |
|    | PLACE1011646 | F-PLACE1011646 | 0.37 |
| 20 | PLACE1011664 | F-PLACE1011664 | 0.65 |
|    | PLACE1011675 | F-PLACE1011675 | 0.89 |
|    | PLACE1011682 | F-PLACE1011682 | 0.81 |
|    | PLACE1011725 | F-PLACE1011725 | 0.86 |
| 25 | PLACE1011783 | F-PLACE1011783 | 0.78 |
|    | PLACE1011858 | F-PLACE1011858 | 0.76 |
|    | PLACE1011875 | F-PLACE1011875 | 0.49 |
|    | PLACE1011891 | F-PLACE1011891 | 0.34 |
| 30 | PLACE1011896 | F-PLACE1011896 | 0.34 |
|    | PLACE1011922 | F-PLACE1011922 | 0.46 |
|    | PLACE1011923 | F-PLACE1011923 | 0.74 |
|    | PLACE1011982 | F-PLACE1011982 | 0.71 |
| 35 | PLACE1012031 | F-PLACE1012031 | 0.80 |
|    | PLACE2000006 | F-PLACE2000006 | 0.61 |
|    | PLACE2000007 | F-PLACE2000007 | 0.37 |
|    | PLACE2000014 | F-PLACE2000014 | 0.67 |
|    | PLACE2000015 | F-PLACE2000015 | 0.53 |
| 40 | PLACE2000021 | F-PLACE2000021 | 0.36 |
|    | PLACE2000030 | F-PLACE2000030 | 0.83 |
|    | PLACE2000033 | F-PLACE2000033 | 0.44 |
|    | PLACE2000034 | F-PLACE2000034 | 0.88 |
| 45 | PLACE2000039 | F-PLACE2000039 | 0.67 |
|    | PLACE2000047 | F-PLACE2000047 | 0.84 |
|    | PLACE2000050 | F-PLACE2000050 | 0.41 |
|    | PLACE2000062 | F-PLACE2000062 | 0.94 |
| 50 | PLACE2000072 | F-PLACE2000072 | 0.86 |
|    | PLACE2000097 | F-PLACE2000097 | 0.94 |
|    | PLACE2000100 | F-PLACE2000100 | 0.75 |
|    | PLACE2000111 | F-PLACE2000111 | 0.62 |
|    | PLACE2000124 | F-PLACE2000124 | 0.77 |
| 55 | PLACE2000164 | F-PLACE2000164 | 0.57 |

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|----|--------------|----------------|------|
|    | PLACE2000170 | F-PLACE2000170 | 0.60 |
|    | PLACE2000172 | F-PLACE2000172 | 0.55 |
|    | PLACE2000223 | F-PLACE2000223 | 0.54 |
| 5  | PLACE2000235 | F-PLACE2000235 | 0.94 |
|    | PLACE2000246 | F-PLACE2000246 | 0.94 |
|    | PLACE2000274 | F-PLACE2000274 | 0.82 |
|    | PLACE2000302 | F-PLACE2000302 | 0.92 |
| 10 | PLACE2000341 | F-PLACE2000341 | 0.58 |
|    | PLACE2000359 | F-PLACE2000359 | 0.33 |
|    | PLACE2000371 | F-PLACE2000371 | 0.71 |
|    | PLACE2000373 | F-PLACE2000373 | 0.65 |
| 15 | PLACE2000399 | F-PLACE2000399 | 0.41 |
|    | PLACE2000404 | F-PLACE2000404 | 0.94 |
|    | PLACE2000411 | F-PLACE2000411 | 0.90 |
|    | PLACE2000427 | F-PLACE2000427 | 0.60 |
| 20 | PLACE2000433 | F-PLACE2000433 | 0.61 |
|    | PLACE2000438 | F-PLACE2000438 | 0.56 |
|    | PLACE2000458 | F-PLACE2000458 | 0.82 |
|    | PLACE3000009 | F-PLACE3000009 | 0.56 |
| 25 | PLACE3000020 | F-PLACE3000020 | 0.94 |
|    | PLACE3000029 | F-PLACE3000029 | 0.94 |
|    | PLACE3000059 | F-PLACE3000059 | 0.51 |
|    | PLACE3000070 | F-PLACE3000070 | 0.67 |
| 30 | PLACE3000103 | F-PLACE3000103 | 0.34 |
|    | PLACE3000121 | F-PLACE3000121 | 0.32 |
|    | PLACE3000142 | F-PLACE3000142 | 0.67 |
|    | PLACE3000145 | F-PLACE3000145 | 0.84 |
|    | PLACE3000147 | F-PLACE3000147 | 0.57 |
| 35 | PLACE3000148 | F-PLACE3000148 | 0.94 |
|    | PLACE3000155 | F-PLACE3000155 | 0.42 |
|    | PLACE3000156 | F-PLACE3000156 | 0.40 |
|    | PLACE3000157 | F-PLACE3000157 | 0.75 |
| 40 | PLACE3000160 | F-PLACE3000160 | 0.44 |
|    | PLACE3000194 | F-PLACE3000194 | 0.37 |
|    | PLACE3000197 | F-PLACE3000197 | 0.37 |
|    | PLACE3000221 | F-PLACE3000221 | 0.49 |
| 45 | PLACE3000226 | F-PLACE3000226 | 0.39 |
|    | PLACE3000242 | F-PLACE3000242 | 0.94 |
|    | PLACE3000244 | F-PLACE3000244 | 0.56 |
|    | PLACE3000254 | F-PLACE3000254 | 0.60 |
| 50 | PLACE3000304 | F-PLACE3000304 | 0.42 |
|    | PLACE3000310 | F-PLACE3000310 | 0.71 |
|    | PLACE3000320 | F-PLACE3000320 | 0.37 |
|    | PLACE3000322 | F-PLACE3000322 | 0.46 |
|    | PLACE3000331 | F-PLACE3000331 | 0.31 |
| 55 | PLACE3000339 | F-PLACE3000339 | 0.45 |



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|    |              |                |      |
|----|--------------|----------------|------|
|    | PLACE3000350 | F-PLACE3000350 | 0.52 |
|    | PLACE3000352 | F-PLACE3000352 | 0.65 |
| 5  | PLACE3000353 | F-PLACE3000353 | 0.71 |
|    | PLACE3000363 | F-PLACE3000363 | 0.45 |
|    | PLACE3000405 | F-PLACE3000405 | 0.52 |
|    | PLACE3000413 | F-PLACE3000413 | 0.85 |
| 10 | PLACE3000416 | F-PLACE3000416 | 0.94 |
|    | PLACE3000425 | F-PLACE3000425 | 0.40 |
|    | PLACE3000455 | F-PLACE3000455 | 0.45 |
|    | PLACE3000477 | F-PLACE3000477 | 0.79 |
| 15 | PLACE4000009 | F-PLACE4000009 | 0.74 |
|    | PLACE4000014 | F-PLACE4000014 | 0.46 |
|    | PLACE4000034 | F-PLACE4000034 | 0.89 |
|    | PLACE4000049 | F-PLACE4000049 | 0.68 |
|    | PLACE4000052 | F-PLACE4000052 | 0.80 |
| 20 | PLACE4000063 | F-PLACE4000063 | 0.69 |
|    | PLACE4000089 | F-PLACE4000089 | 0.44 |
|    | PLACE4000106 | F-PLACE4000106 | 0.34 |
|    | PLACE4000128 | F-PLACE4000128 | 0.89 |
| 25 | PLACE4000129 | F-PLACE4000129 | 0.61 |
|    | PLACE4000131 | F-PLACE4000131 | 0.55 |
|    | PLACE4000147 | F-PLACE4000147 | 0.94 |
|    | PLACE4000156 | F-PLACE4000156 | 0.37 |
| 30 | PLACE4000192 | F-PLACE4000192 | 0.88 |
|    | PLACE4000211 | F-PLACE4000211 | 0.64 |
|    | PLACE4000222 | F-PLACE4000222 | 0.40 |
|    | PLACE4000230 | F-PLACE4000230 | 0.49 |
|    | PLACE4000259 | F-PLACE4000259 | 0.84 |
| 35 | PLACE4000261 | F-PLACE4000261 | 0.42 |
|    | PLACE4000269 | F-PLACE4000269 | 0.60 |
|    | PLACE4000270 | F-PLACE4000270 | 0.61 |
|    | PLACE4000300 | F-PLACE4000300 | 0.85 |
| 40 | PLACE4000323 | F-PLACE4000323 | 0.76 |
|    | PLACE4000326 | F-PLACE4000326 | 0.86 |
|    | PLACE4000369 | F-PLACE4000369 | 0.87 |
|    | PLACE4000387 | F-PLACE4000387 | 0.41 |
| 45 | PLACE4000392 | F-PLACE4000392 | 0.39 |
|    | PLACE4000431 | F-PLACE4000431 | 0.88 |
|    | PLACE4000445 | F-PLACE4000445 | 0.40 |
|    | PLACE4000450 | F-PLACE4000450 | 0.89 |
| 50 | PLACE4000465 | F-PLACE4000465 | 0.38 |
|    | PLACE4000487 | F-PLACE4000487 | 0.44 |
|    | PLACE4000489 | F-PLACE4000489 | 0.51 |
|    | PLACE4000521 | F-PLACE4000521 | 0.38 |
|    | PLACE4000522 | F-PLACE4000522 | 0.33 |
| 55 | PLACE4000558 | F-PLACE4000558 | 0.44 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | PLACE4000581 | F-PLACE4000581 | 0. 59 |
|    | PLACE4000590 | F-PLACE4000590 | 0. 38 |
| 5  | PLACE4000593 | F-PLACE4000593 | 0. 33 |
|    | PLACE4000612 | F-PLACE4000612 | 0. 37 |
|    | PLACE4000638 | F-PLACE4000638 | 0. 38 |
|    | PLACE4000650 | F-PLACE4000650 | 0. 59 |
|    | PLACE4000654 | F-PLACE4000654 | 0. 57 |
| 10 | PLACE4000670 | F-PLACE4000670 | 0. 71 |
|    | SKNMC1000011 | F-SKNMC1000011 | 0. 94 |
|    | SKNMC1000013 | F-SKNMC1000013 | 0. 66 |
|    | SKNMC1000046 | F-SKNMC1000046 | 0. 72 |
| 15 | SKNMC1000050 | F-SKNMC1000050 | 0. 47 |
|    | SKNMC1000091 | F-SKNMC1000091 | 0. 68 |
|    | THYRO1000017 | F-THYRO1000017 | 0. 93 |
|    | THYRO1000034 | F-THYRO1000034 | 0. 48 |
| 20 | THYRO1000040 | F-THYRO1000040 | 0. 32 |
|    | THYRO1000070 | F-THYRO1000070 | 0. 75 |
|    | THYRO1000072 | F-THYRO1000072 | 0. 94 |
|    | THYRO1000107 | F-THYRO1000107 | 0. 94 |
| 25 | THYRO1000121 | F-THYRO1000121 | 0. 46 |
|    | THYRO1000124 | F-THYRO1000124 | 0. 37 |
|    | THYRO1000163 | F-THYRO1000163 | 0. 45 |
|    | THYRO1000173 | F-THYRO1000173 | 0. 94 |
| 30 | THYRO1000197 | F-THYRO1000197 | 0. 78 |
|    | THYRO1000199 | F-THYRO1000199 | 0. 55 |
|    | THYRO1000206 | F-THYRO1000206 | 0. 59 |
|    | THYRO1000242 | F-THYRO1000242 | 0. 69 |
| 35 | THYRO1000253 | F-THYRO1000253 | 0. 48 |
|    | THYRO1000270 | F-THYRO1000270 | 0. 85 |
|    | THYRO1000288 | F-THYRO1000288 | 0. 31 |
|    | THYRO1000320 | F-THYRO1000320 | 0. 94 |
| 40 | THYRO1000327 | F-THYRO1000327 | 0. 44 |
|    | THYRO1000343 | F-THYRO1000343 | 0. 82 |
|    | THYRO1000358 | F-THYRO1000358 | 0. 89 |
|    | THYRO1000368 | F-THYRO1000368 | 0. 94 |
|    | THYRO1000381 | F-THYRO1000381 | 0. 64 |
| 45 | THYRO1000387 | F-THYRO1000387 | 0. 57 |
|    | THYRO1000394 | F-THYRO1000394 | 0. 94 |
|    | THYRO1000395 | F-THYRO1000395 | 0. 91 |
|    | THYRO1000401 | F-THYRO1000401 | 0. 73 |
| 50 | THYRO1000488 | F-THYRO1000488 | 0. 94 |
|    | THYRO1000501 | F-THYRO1000501 | 0. 74 |
|    | THYRO1000502 | F-THYRO1000502 | 0. 64 |
|    | THYRO1000505 | F-THYRO1000505 | 0. 47 |
| 55 | THYRO1000569 | F-THYRO1000569 | 0. 76 |
|    | THYRO1000570 | F-THYRO1000570 | 0. 79 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | THYRO1000585 | F-THYRO1000585 | 0.60 |
|    | THYRO1000605 | F-THYRO1000605 | 0.79 |
|    | THYRO1000637 | F-THYRO1000637 | 0.80 |
| 5  | THYRO1000662 | F-THYRO1000662 | 0.77 |
|    | THYRO1000666 | F-THYRO1000666 | 0.47 |
|    | THYRO1000676 | F-THYRO1000676 | 0.94 |
|    | THYRO1000684 | F-THYRO1000684 | 0.72 |
| 10 | THYRO1000712 | F-THYRO1000712 | 0.94 |
|    | THYRO1000715 | F-THYRO1000715 | 0.94 |
|    | THYRO1000734 | F-THYRO1000734 | 0.44 |
|    | THYRO1000756 | F-THYRO1000756 | 0.94 |
| 15 | THYRO1000777 | F-THYRO1000777 | 0.73 |
|    | THYRO1000783 | F-THYRO1000783 | 0.74 |
|    | THYRO1000787 | F-THYRO1000787 | 0.67 |
|    | THYRO1000829 | F-THYRO1000829 | 0.43 |
| 20 | THYRO1000855 | F-THYRO1000855 | 0.91 |
|    | THYRO1000916 | F-THYRO1000916 | 0.64 |
|    | THYRO1000926 | F-THYRO1000926 | 0.39 |
|    | THYRO1000934 | F-THYRO1000934 | 0.94 |
| 25 | THYRO1000951 | F-THYRO1000951 | 0.94 |
|    | THYRO1000952 | F-THYRO1000952 | 0.67 |
|    | THYRO1000983 | F-THYRO1000983 | 0.87 |
|    | THYRO1000984 | F-THYRO1000984 | 0.94 |
|    | THYRO1000988 | F-THYRO1000988 | 0.37 |
| 30 | THYRO1001033 | F-THYRO1001033 | 0.74 |
|    | THYRO1001100 | F-THYRO1001100 | 0.74 |
|    | THYRO1001120 | F-THYRO1001120 | 0.87 |
|    | THYRO1001134 | F-THYRO1001134 | 0.93 |
| 35 | THYRO1001142 | F-THYRO1001142 | 0.61 |
|    | THYRO1001173 | F-THYRO1001173 | 0.50 |
|    | THYRO1001189 | F-THYRO1001189 | 0.40 |
|    | THYRO1001204 | F-THYRO1001204 | 0.94 |
| 40 | THYRO1001213 | F-THYRO1001213 | 0.94 |
|    | THYRO1001271 | F-THYRO1001271 | 0.93 |
|    | THYRO1001287 | F-THYRO1001287 | 0.32 |
|    | THYRO1001313 | F-THYRO1001313 | 0.53 |
| 45 | THYRO1001320 | F-THYRO1001320 | 0.68 |
|    | THYRO1001347 | F-THYRO1001347 | 0.68 |
|    | THYRO1001363 | F-THYRO1001363 | 0.39 |
|    | THYRO1001374 | F-THYRO1001374 | 0.94 |
|    | THYRO1001403 | F-THYRO1001403 | 0.49 |
| 50 | THYRO1001405 | F-THYRO1001405 | 0.90 |
|    | THYRO1001406 | F-THYRO1001406 | 0.67 |
|    | THYRO1001458 | F-THYRO1001458 | 0.94 |
|    | THYRO1001487 | F-THYRO1001487 | 0.63 |
| 55 | THYRO1001537 | F-THYRO1001537 | 0.94 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | THYR01001584 | F-THYR01001584 | 0.77 |
|    | THYR01001602 | F-THYR01001602 | 0.64 |
|    | THYR01001605 | F-THYR01001605 | 0.52 |
| 5  | THYR01001637 | F-THYR01001637 | 0.68 |
|    | THYR01001656 | F-THYR01001656 | 0.82 |
|    | THYR01001661 | F-THYR01001661 | 0.94 |
|    | THYR01001671 | F-THYR01001671 | 0.94 |
| 10 | THYR01001703 | F-THYR01001703 | 0.87 |
|    | THYR01001721 | F-THYR01001721 | 0.38 |
|    | THYR01001738 | F-THYR01001738 | 0.51 |
|    | THYR01001793 | F-THYR01001793 | 0.84 |
| 15 | THYR01001809 | F-THYR01001809 | 0.73 |
|    | THYR01001828 | F-THYR01001828 | 0.88 |
|    | THYR01001854 | F-THYR01001854 | 0.47 |
|    | VESEN1000122 | F-VESEN1000122 | 0.36 |
| 20 | Y79AA1000013 | F-Y79AA1000013 | 0.94 |
|    | Y79AA1000037 | F-Y79AA1000037 | 0.94 |
|    | Y79AA1000059 | F-Y79AA1000059 | 0.94 |
|    | Y79AA1000131 | F-Y79AA1000131 | 0.56 |
|    | Y79AA1000181 | F-Y79AA1000181 | 0.59 |
| 25 | Y79AA1000202 | F-Y79AA1000202 | 0.45 |
|    | Y79AA1000214 | F-Y79AA1000214 | 0.93 |
|    | Y79AA1000230 | F-Y79AA1000230 | 0.94 |
|    | Y79AA1000231 | F-Y79AA1000231 | 0.36 |
| 30 | Y79AA1000258 | F-Y79AA1000258 | 0.36 |
|    | Y79AA1000268 | F-Y79AA1000268 | 0.92 |
|    | Y79AA1000313 | F-Y79AA1000313 | 0.91 |
|    | Y79AA1000328 | F-Y79AA1000328 | 0.94 |
| 35 | Y79AA1000342 | F-Y79AA1000342 | 0.83 |
|    | Y79AA1000349 | F-Y79AA1000349 | 0.50 |
|    | Y79AA1000355 | F-Y79AA1000355 | 0.94 |
|    | Y79AA1000368 | F-Y79AA1000368 | 0.91 |
| 40 | Y79AA1000420 | F-Y79AA1000420 | 0.94 |
|    | Y79AA1000469 | F-Y79AA1000469 | 0.51 |
|    | Y79AA1000480 | F-Y79AA1000480 | 0.94 |
|    | Y79AA1000539 | F-Y79AA1000539 | 0.74 |
|    | Y79AA1000540 | F-Y79AA1000540 | 0.94 |
| 45 | Y79AA1000560 | F-Y79AA1000560 | 0.93 |
|    | Y79AA1000574 | F-Y79AA1000574 | 0.87 |
|    | Y79AA1000589 | F-Y79AA1000589 | 0.94 |
|    | Y79AA1000627 | F-Y79AA1000627 | 0.55 |
| 50 | Y79AA1000705 | F-Y79AA1000705 | 0.76 |
|    | Y79AA1000734 | F-Y79AA1000734 | 0.60 |
|    | Y79AA1000748 | F-Y79AA1000748 | 0.45 |
|    | Y79AA1000752 | F-Y79AA1000752 | 0.94 |
| 55 | Y79AA1000774 | F-Y79AA1000774 | 0.38 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | Y79AA1000782 | F-Y79AA1000782 | 0. 47 |
|    | Y79AA1000784 | F-Y79AA1000784 | 0. 93 |
| 5  | Y79AA1000794 | F-Y79AA1000794 | 0. 67 |
|    | Y79AA1000800 | F-Y79AA1000800 | 0. 94 |
|    | Y79AA1000824 | F-Y79AA1000824 | 0. 90 |
|    | Y79AA1000827 | F-Y79AA1000827 | 0. 94 |
| 10 | Y79AA1000833 | F-Y79AA1000833 | 0. 34 |
|    | Y79AA1000850 | F-Y79AA1000850 | 0. 92 |
|    | Y79AA1000962 | F-Y79AA1000962 | 0. 69 |
|    | Y79AA1000966 | F-Y79AA1000966 | 0. 64 |
|    | Y79AA1000968 | F-Y79AA1000968 | 0. 64 |
| 15 | Y79AA1000976 | F-Y79AA1000976 | 0. 66 |
|    | Y79AA1000985 | F-Y79AA1000985 | 0. 66 |
|    | Y79AA1001023 | F-Y79AA1001023 | 0. 33 |
|    | Y79AA1001041 | F-Y79AA1001041 | 0. 90 |
| 20 | Y79AA1001048 | F-Y79AA1001048 | 0. 81 |
|    | Y79AA1001068 | F-Y79AA1001068 | 0. 64 |
|    | Y79AA1001077 | F-Y79AA1001077 | 0. 78 |
|    | Y79AA1001078 | F-Y79AA1001078 | 0. 92 |
| 25 | Y79AA1001105 | F-Y79AA1001105 | 0. 70 |
|    | Y79AA1001145 | F-Y79AA1001145 | 0. 46 |
|    | Y79AA1001177 | F-Y79AA1001177 | 0. 74 |
|    | Y79AA1001185 | F-Y79AA1001185 | 0. 74 |
| 30 | Y79AA1001211 | F-Y79AA1001211 | 0. 94 |
|    | Y79AA1001216 | F-Y79AA1001216 | 0. 61 |
|    | Y79AA1001228 | F-Y79AA1001228 | 0. 56 |
|    | Y79AA1001233 | F-Y79AA1001233 | 0. 83 |
|    | Y79AA1001236 | F-Y79AA1001236 | 0. 32 |
| 35 | Y79AA1001281 | F-Y79AA1001281 | 0. 51 |
|    | Y79AA1001299 | F-Y79AA1001299 | 0. 94 |
|    | Y79AA1001312 | F-Y79AA1001312 | 0. 53 |
|    | Y79AA1001323 | F-Y79AA1001323 | 0. 76 |
| 40 | Y79AA1001391 | F-Y79AA1001391 | 0. 83 |
|    | Y79AA1001394 | F-Y79AA1001394 | 0. 94 |
|    | Y79AA1001402 | F-Y79AA1001402 | 0. 90 |
|    | Y79AA1001493 | F-Y79AA1001493 | 0. 94 |
| 45 | Y79AA1001511 | F-Y79AA1001511 | 0. 47 |
|    | Y79AA1001533 | F-Y79AA1001533 | 0. 92 |
|    | Y79AA1001541 | F-Y79AA1001541 | 0. 32 |
|    | Y79AA1001548 | F-Y79AA1001548 | 0. 50 |
|    | Y79AA1001555 | F-Y79AA1001555 | 0. 92 |
| 50 | Y79AA1001581 | F-Y79AA1001581 | 0. 94 |
|    | Y79AA1001585 | F-Y79AA1001585 | 0. 80 |
|    | Y79AA1001603 | F-Y79AA1001603 | 0. 94 |
|    | Y79AA1001613 | F-Y79AA1001613 | 0. 94 |
| 55 | Y79AA1001647 | F-Y79AA1001647 | 0. 49 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | Y79AA1001665 | F-Y79AA1001665 | 0.78 |
|    | Y79AA1001679 | F-Y79AA1001679 | 0.94 |
| 5  | Y79AA1001696 | F-Y79AA1001696 | 0.60 |
|    | Y79AA1001705 | F-Y79AA1001705 | 0.67 |
|    | Y79AA1001711 | F-Y79AA1001711 | 0.59 |
|    | Y79AA1001781 | F-Y79AA1001781 | 0.74 |
| 10 | Y79AA1001805 | F-Y79AA1001805 | 0.79 |
|    | Y79AA1001827 | F-Y79AA1001827 | 0.84 |
|    | Y79AA1001846 | F-Y79AA1001846 | 0.34 |
|    | Y79AA1001866 | F-Y79AA1001866 | 0.75 |
| 15 | Y79AA1001874 | F-Y79AA1001874 | 0.59 |
|    | Y79AA1001923 | F-Y79AA1001923 | 0.32 |
|    | Y79AA1001963 | F-Y79AA1001963 | 0.51 |
|    | Y79AA1002027 | F-Y79AA1002027 | 0.39 |
| 20 | Y79AA1002083 | F-Y79AA1002083 | 0.65 |
|    | Y79AA1002089 | F-Y79AA1002089 | 0.94 |
|    | Y79AA1002093 | F-Y79AA1002093 | 0.89 |
|    | Y79AA1002115 | F-Y79AA1002115 | 0.31 |
| 25 | Y79AA1002125 | F-Y79AA1002125 | 0.76 |
|    | Y79AA1002139 | F-Y79AA1002139 | 0.32 |
|    | Y79AA1002204 | F-Y79AA1002204 | 0.94 |
| 30 | Y79AA1002208 | F-Y79AA1002208 | 0.76 |
|    | Y79AA1002209 | F-Y79AA1002209 | 0.91 |
|    | Y79AA1002210 | F-Y79AA1002210 | 0.60 |
|    | Y79AA1002229 | F-Y79AA1002229 | 0.76 |
| 35 | Y79AA1002234 | F-Y79AA1002234 | 0.94 |
|    | Y79AA1002246 | F-Y79AA1002246 | 0.65 |
|    | Y79AA1002258 | F-Y79AA1002258 | 0.79 |
|    | Y79AA1002298 | F-Y79AA1002298 | 0.83 |
| 40 | Y79AA1002307 | F-Y79AA1002307 | 0.52 |
|    | Y79AA1002311 | F-Y79AA1002311 | 0.92 |
|    | Y79AA1002351 | F-Y79AA1002351 | 0.85 |
|    | Y79AA1002361 | F-Y79AA1002361 | 0.90 |
| 45 | Y79AA1002399 | F-Y79AA1002399 | 0.94 |
|    | Y79AA1002407 | F-Y79AA1002407 | 0.83 |
|    | Y79AA1002416 | F-Y79AA1002416 | 0.77 |
|    | Y79AA1002431 | F-Y79AA1002431 | 0.61 |
| 50 | Y79AA1002433 | F-Y79AA1002433 | 0.81 |
|    | Y79AA1002472 | F-Y79AA1002472 | 0.39 |
|    | Y79AA1002482 | F-Y79AA1002482 | 0.88 |
| 55 | Y79AA1002487 | F-Y79AA1002487 | 0.87 |

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Table 10

Selected clones having the maximal ATGpr1 score of not more than 0.3 (1857 clones including the 9 clones whose 5'-end sequence does not contain the ATG codon. Blank of the maximal ATGpr1 score indicates that clones whose 5'-end sequence does not contain the ATG codon).

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|    | clone<br>name | name of<br>sequence | maximal<br>ATGprl<br>score |
|----|---------------|---------------------|----------------------------|
| 5  |               |                     |                            |
|    | HEMBA1000042  | F-HEMBA1000042      | 0.08                       |
|    | HEMBA1000111  | F-HEMBA1000111      | 0.1                        |
| 10 | HEMBA1000180  | F-HEMBA1000180      | 0.09                       |
|    | HEMBA1000213  | F-HEMBA1000213      | 0.21                       |
|    | HEMBA1000243  | F-HEMBA1000243      | 0.1                        |
|    | HEMBA1000251  | F-HEMBA1000251      | 0.08                       |
| 15 | HEMBA1000264  | F-HEMBA1000264      | 0.08                       |
|    | HEMBA1000280  | F-HEMBA1000280      | 0.13                       |
|    | HEMBA1000282  | F-HEMBA1000282      | 0.1                        |
|    | HEMBA1000333  | F-HEMBA1000333      | 0.17                       |
| 20 | HEMBA1000338  | F-HEMBA1000338      | 0.16                       |
|    | HEMBA1000351  | F-HEMBA1000351      | 0.17                       |
|    | HEMBA1000355  | F-HEMBA1000355      | 0.11                       |
|    | HEMBA1000357  | F-HEMBA1000357      | 0.08                       |
| 25 | HEMBA1000366  | F-HEMBA1000366      | 0.11                       |
|    | HEMBA1000376  | F-HEMBA1000376      | 0.1                        |
|    | HEMBA1000390  | F-HEMBA1000390      | 0.11                       |
|    | HEMBA1000411  | F-HEMBA1000411      | 0.07                       |
| 30 | HEMBA1000418  | F-HEMBA1000418      | 0.06                       |
|    | HEMBA1000422  | F-HEMBA1000422      | 0.07                       |
|    | HEMBA1000428  | F-HEMBA1000428      | 0.08                       |
|    | HEMBA1000434  | F-HEMBA1000434      | 0.11                       |
|    | HEMBA1000442  | F-HEMBA1000442      | 0.1                        |
| 35 | HEMBA1000459  | F-HEMBA1000459      | 0.08                       |
|    | HEMBA1000464  | F-HEMBA1000464      | 0.12                       |
|    | HEMBA1000469  | F-HEMBA1000469      | 0.07                       |
|    | HEMBA1000504  | F-HEMBA1000504      | 0.1                        |
| 40 | HEMBA1000518  | F-HEMBA1000518      | 0.23                       |
|    | HEMBA1000519  | F-HEMBA1000519      | 0.3                        |
|    | HEMBA1000540  | F-HEMBA1000540      | 0.06                       |
|    | HEMBA1000545  | F-HEMBA1000545      | 0.18                       |
| 45 | HEMBA1000557  | F-HEMBA1000557      | 0.19                       |
|    | HEMBA1000563  | F-HEMBA1000563      | 0.17                       |
|    | HEMBA1000569  | F-HEMBA1000569      | 0.12                       |
|    | HEMBA1000575  | F-HEMBA1000575      | 0.14                       |
| 50 | HEMBA1000604  | F-HEMBA1000604      | 0.1                        |
|    | HEMBA1000622  | F-HEMBA1000622      | 0.08                       |
|    | HEMBA1000655  | F-HEMBA1000655      | 0.19                       |
|    | HEMBA1000662  | F-HEMBA1000662      | 0.15                       |
| 55 | HEMBA1000673  | F-HEMBA1000673      | 0.08                       |
|    | HEMBA1000702  | F-HEMBA1000702      | 0.12                       |



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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBA1000705 | F-HEMBA1000705 | 0.06 |
|    | HEMBA1000722 | F-HEMBA1000722 | 0.17 |
|    | HEMBA1000726 | F-HEMBA1000726 | 0.08 |
| 5  | HEMBA1000747 | F-HEMBA1000747 | 0.06 |
|    | HEMBA1000749 | F-HEMBA1000749 | 0.09 |
|    | HEMBA1000769 | F-HEMBA1000769 | 0.19 |
|    | HEMBA1000773 | F-HEMBA1000773 | 0.08 |
| 10 | HEMBA1000774 | F-HEMBA1000774 | 0.17 |
|    | HEMBA1000791 | F-HEMBA1000791 | 0.08 |
|    | HEMBA1000822 | F-HEMBA1000822 | 0.19 |
|    | HEMBA1000827 | F-HEMBA1000827 | 0.09 |
| 15 | HEMBA1000843 | F-HEMBA1000843 | 0.12 |
|    | HEMBA1000852 | F-HEMBA1000852 | 0.16 |
|    | HEMBA1000870 | F-HEMBA1000870 | 0.14 |
|    | HEMBA1000876 | F-HEMBA1000876 | 0.15 |
| 20 | HEMBA1000908 | F-HEMBA1000908 | 0.17 |
|    | HEMBA1000934 | F-HEMBA1000934 | 0.2  |
|    | HEMBA1000943 | F-HEMBA1000943 | 0.08 |
|    | HEMBA1000960 | F-HEMBA1000960 | 0.09 |
| 25 | HEMBA1000972 | F-HEMBA1000972 | 0.12 |
|    | HEMBA1000974 | F-HEMBA1000974 | 0.08 |
|    | HEMBA1000985 | F-HEMBA1000985 | 0.06 |
|    | HEMBA1000991 | F-HEMBA1000991 | 0.23 |
| 30 | HEMBA1001007 | F-HEMBA1001007 | 0.06 |
|    | HEMBA1001017 | F-HEMBA1001017 | 0.06 |
|    | HEMBA1001019 | F-HEMBA1001019 | 0.08 |
|    | HEMBA1001020 | F-HEMBA1001020 | 0.15 |
|    | HEMBA1001024 | F-HEMBA1001024 | 0.1  |
| 35 | HEMBA1001026 | F-HEMBA1001026 | 0.13 |
|    | HEMBA1001051 | F-HEMBA1001051 | 0.27 |
|    | HEMBA1001060 | F-HEMBA1001060 | 0.11 |
|    | HEMBA1001071 | F-HEMBA1001071 | 0.1  |
| 40 | HEMBA1001077 | F-HEMBA1001077 | 0.07 |
|    | HEMBA1001094 | F-HEMBA1001094 | 0.07 |
|    | HEMBA1001099 | F-HEMBA1001099 | 0.08 |
|    | HEMBA1001121 | F-HEMBA1001121 | 0.25 |
| 45 | HEMBA1001123 | F-HEMBA1001123 | 0.05 |
|    | HEMBA1001172 | F-HEMBA1001172 | 0.08 |
|    | HEMBA1001208 | F-HEMBA1001208 | 0.11 |
|    | HEMBA1001226 | F-HEMBA1001226 | 0.27 |
| 50 | HEMBA1001265 | F-HEMBA1001265 | 0.06 |
|    | HEMBA1001294 | F-HEMBA1001294 | 0.12 |
|    | HEMBA1001299 | F-HEMBA1001299 | 0.2  |
|    | HEMBA1001319 | F-HEMBA1001319 | 0.3  |
| 55 | HEMBA1001323 | F-HEMBA1001323 | 0.07 |
|    | HEMBA1001327 | F-HEMBA1001327 | 0.08 |

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|    | HEMBA1001330 | F-HEMBA1001330 | 0.11 |
|    | HEMBA1001375 | F-HEMBA1001375 | 0.15 |
|    | HEMBA1001383 | F-HEMBA1001383 | 0.11 |
| 5  | HEMBA1001391 | F-HEMBA1001391 | 0.21 |
|    | HEMBA1001411 | F-HEMBA1001411 | 0.06 |
|    | HEMBA1001432 | F-HEMBA1001432 | 0.07 |
|    | HEMBA1001433 | F-HEMBA1001433 | 0.24 |
| 10 | HEMBA1001435 | F-HEMBA1001435 | 0.16 |
|    | HEMBA1001442 | F-HEMBA1001442 | 0.22 |
|    | HEMBA1001454 | F-HEMBA1001454 | 0.11 |
|    | HEMBA1001463 | F-HEMBA1001463 | 0.08 |
| 15 | HEMBA1001478 | F-HEMBA1001478 | 0.13 |
|    | HEMBA1001515 | F-HEMBA1001515 | 0.3  |
|    | HEMBA1001517 | F-HEMBA1001517 | 0.07 |
|    | HEMBA1001522 | F-HEMBA1001522 | 0.3  |
| 20 | HEMBA1001557 | F-HEMBA1001557 | 0.06 |
|    | HEMBA1001566 | F-HEMBA1001566 | 0.1  |
|    | HEMBA1001585 | F-HEMBA1001585 | 0.09 |
|    | HEMBA1001589 | F-HEMBA1001589 | 0.06 |
| 25 | HEMBA1001608 | F-HEMBA1001608 | 0.17 |
|    | HEMBA1001636 | F-HEMBA1001636 | 0.15 |
|    | HEMBA1001651 | F-HEMBA1001651 | 0.23 |
|    | HEMBA1001658 | F-HEMBA1001658 | 0.17 |
| 30 | HEMBA1001675 | F-HEMBA1001675 | 0.11 |
|    | HEMBA1001678 | F-HEMBA1001678 | 0.06 |
|    | HEMBA1001681 | F-HEMBA1001681 | 0.1  |
|    | HEMBA1001709 | F-HEMBA1001709 | 0.29 |
|    | HEMBA1001712 | F-HEMBA1001712 | 0.08 |
| 35 | HEMBA1001718 | F-HEMBA1001718 | 0.07 |
|    | HEMBA1001734 | F-HEMBA1001734 | 0.07 |
|    | HEMBA1001745 | F-HEMBA1001745 | 0.09 |
|    | HEMBA1001761 | F-HEMBA1001761 | 0.09 |
| 40 | HEMBA1001784 | F-HEMBA1001784 | 0.11 |
|    | HEMBA1001791 | F-HEMBA1001791 | 0.15 |
|    | HEMBA1001803 | F-HEMBA1001803 | 0.21 |
|    | HEMBA1001808 | F-HEMBA1001808 | 0.18 |
| 45 | HEMBA1001820 | F-HEMBA1001820 | 0.08 |
|    | HEMBA1001835 | F-HEMBA1001835 | 0.29 |
|    | HEMBA1001844 | F-HEMBA1001844 | 0.11 |
|    | HEMBA1001861 | F-HEMBA1001861 | 0.2  |
| 50 | HEMBA1001888 | F-HEMBA1001888 | 0.18 |
|    | HEMBA1001918 | F-HEMBA1001918 | 0.09 |
|    | HEMBA1001940 | F-HEMBA1001940 | 0.21 |
|    | HEMBA1001942 | F-HEMBA1001942 | 0.17 |
|    | HEMBA1001945 | F-HEMBA1001945 | 0.06 |
| 55 | HEMBA1001960 | F-HEMBA1001960 |      |

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|    | HEMBA1001962 | F-HEMBA1001962 | 0. 08 |
|    | HEMBA1001964 | F-HEMBA1001964 | 0. 15 |
|    | HEMBA1001979 | F-HEMBA1001979 | 0. 07 |
| 5  | HEMBA1001991 | F-HEMBA1001991 | 0. 08 |
|    | HEMBA1002003 | F-HEMBA1002003 | 0. 11 |
|    | HEMBA1002008 | F-HEMBA1002008 | 0. 08 |
|    | HEMBA1002022 | F-HEMBA1002022 | 0. 08 |
| 10 | HEMBA1002039 | F-HEMBA1002039 | 0. 2  |
|    | HEMBA1002100 | F-HEMBA1002100 | 0. 07 |
|    | HEMBA1002113 | F-HEMBA1002113 | 0. 09 |
|    | HEMBA1002139 | F-HEMBA1002139 | 0. 2  |
| 15 | HEMBA1002144 | F-HEMBA1002144 | 0. 11 |
|    | HEMBA1002153 | F-HEMBA1002153 | 0. 09 |
|    | HEMBA1002160 | F-HEMBA1002160 | 0. 15 |
|    | HEMBA1002162 | F-HEMBA1002162 | 0. 19 |
| 20 | HEMBA1002166 | F-HEMBA1002166 | 0. 06 |
|    | HEMBA1002185 | F-HEMBA1002185 | 0. 11 |
|    | HEMBA1002204 | F-HEMBA1002204 | 0. 09 |
|    | HEMBA1002226 | F-HEMBA1002226 | 0. 13 |
| 25 | HEMBA1002253 | F-HEMBA1002253 | 0. 05 |
|    | HEMBA1002257 | F-HEMBA1002257 | 0. 09 |
|    | HEMBA1002270 | F-HEMBA1002270 | 0. 06 |
|    | HEMBA1002321 | F-HEMBA1002321 | 0. 07 |
|    | HEMBA1002328 | F-HEMBA1002328 | 0. 06 |
| 30 | HEMBA1002337 | F-HEMBA1002337 | 0. 11 |
|    | HEMBA1002348 | F-HEMBA1002348 | 0. 12 |
|    | HEMBA1002349 | F-HEMBA1002349 | 0. 05 |
|    | HEMBA1002381 | F-HEMBA1002381 | 0. 09 |
| 35 | HEMBA1002389 | F-HEMBA1002389 | 0. 14 |
|    | HEMBA1002486 | F-HEMBA1002486 | 0. 1  |
|    | HEMBA1002498 | F-HEMBA1002498 | 0. 17 |
|    | HEMBA1002538 | F-HEMBA1002538 | 0. 27 |
| 40 | HEMBA1002552 | F-HEMBA1002552 | 0. 23 |
|    | HEMBA1002555 | F-HEMBA1002555 | 0. 11 |
|    | HEMBA1002558 | F-HEMBA1002558 | 0. 11 |
|    | HEMBA1002561 | F-HEMBA1002561 | 0. 11 |
| 45 | HEMBA1002590 | F-HEMBA1002590 | 0. 06 |
|    | HEMBA1002592 | F-HEMBA1002592 | 0. 17 |
|    | HEMBA1002621 | F-HEMBA1002621 | 0. 12 |
|    | HEMBA1002628 | F-HEMBA1002628 | 0. 06 |
| 50 | HEMBA1002629 | F-HEMBA1002629 | 0. 23 |
|    | HEMBA1002645 | F-HEMBA1002645 | 0. 12 |
|    | HEMBA1002651 | F-HEMBA1002651 | 0. 08 |
|    | HEMBA1002659 | F-HEMBA1002659 | 0. 28 |
|    | HEMBA1002661 | F-HEMBA1002661 | 0. 28 |
| 55 | HEMBA1002666 | F-HEMBA1002666 | 0. 16 |

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|----|--------------|----------------|-------|
|    | HEMBA1002678 | F-HEMBA1002678 | 0. 07 |
|    | HEMBA1002679 | F-HEMBA1002679 | 0. 14 |
| 5  | HEMBA1002712 | F-HEMBA1002712 | 0. 26 |
|    | HEMBA1002716 | F-HEMBA1002716 | 0. 14 |
|    | HEMBA1002728 | F-HEMBA1002728 | 0. 09 |
|    | HEMBA1002730 | F-HEMBA1002730 | 0. 07 |
|    | HEMBA1002742 | F-HEMBA1002742 | 0. 09 |
| 10 | HEMBA1002748 | F-HEMBA1002748 | 0. 17 |
|    | HEMBA1002780 | F-HEMBA1002780 | 0. 1  |
|    | HEMBA1002801 | F-HEMBA1002801 | 0. 1  |
|    | HEMBA1002826 | F-HEMBA1002826 | 0. 1  |
| 15 | HEMBA1002833 | F-HEMBA1002833 | 0. 14 |
|    | HEMBA1002886 | F-HEMBA1002886 | 0. 09 |
|    | HEMBA1002896 | F-HEMBA1002896 | 0. 05 |
|    | HEMBA1002921 | F-HEMBA1002921 | 0. 25 |
| 20 | HEMBA1002924 | F-HEMBA1002924 | 0. 12 |
|    | HEMBA1002934 | F-HEMBA1002934 | 0. 2  |
|    | HEMBA1002944 | F-HEMBA1002944 | 0. 12 |
|    | HEMBA1002968 | F-HEMBA1002968 | 0. 12 |
| 25 | HEMBA1003034 | F-HEMBA1003034 | 0. 06 |
|    | HEMBA1003037 | F-HEMBA1003037 | 0. 11 |
|    | HEMBA1003064 | F-HEMBA1003064 | 0. 09 |
|    | HEMBA1003071 | F-HEMBA1003071 | 0. 27 |
| 30 | HEMBA1003083 | F-HEMBA1003083 | 0. 18 |
|    | HEMBA1003086 | F-HEMBA1003086 | 0. 06 |
|    | HEMBA1003098 | F-HEMBA1003098 | 0. 09 |
|    | HEMBA1003133 | F-HEMBA1003133 | 0. 12 |
|    | HEMBA1003142 | F-HEMBA1003142 | 0. 29 |
| 35 | HEMBA1003166 | F-HEMBA1003166 | 0. 1  |
|    | HEMBA1003197 | F-HEMBA1003197 | 0. 1  |
|    | HEMBA1003202 | F-HEMBA1003202 | 0. 17 |
|    | HEMBA1003204 | F-HEMBA1003204 | 0. 13 |
| 40 | HEMBA1003212 | F-HEMBA1003212 | 0. 13 |
|    | HEMBA1003220 | F-HEMBA1003220 | 0. 14 |
|    | HEMBA1003229 | F-HEMBA1003229 | 0. 19 |
|    | HEMBA1003273 | F-HEMBA1003273 | 0. 1  |
| 45 | HEMBA1003276 | F-HEMBA1003276 | 0. 12 |
|    | HEMBA1003278 | F-HEMBA1003278 | 0. 09 |
|    | HEMBA1003296 | F-HEMBA1003296 | 0. 07 |
|    | HEMBA1003304 | F-HEMBA1003304 | 0. 09 |
| 50 | HEMBA1003309 | F-HEMBA1003309 | 0. 07 |
|    | HEMBA1003314 | F-HEMBA1003314 | 0. 21 |
|    | HEMBA1003328 | F-HEMBA1003328 | 0. 13 |
|    | HEMBA1003330 | F-HEMBA1003330 | 0. 08 |
|    | HEMBA1003348 | F-HEMBA1003348 | 0. 17 |
| 55 | HEMBA1003373 | F-HEMBA1003373 | 0. 21 |

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|----|--------------|----------------|------|
|    | HEMBA1003376 | F-HEMBA1003376 | 0.14 |
|    | HEMBA1003384 | F-HEMBA1003384 | 0.07 |
| 5  | HEMBA1003531 | F-HEMBA1003531 | 0.2  |
|    | HEMBA1003548 | F-HEMBA1003548 | 0.08 |
|    | HEMBA1003571 | F-HEMBA1003571 | 0.13 |
|    | HEMBA1003579 | F-HEMBA1003579 | 0.13 |
|    | HEMBA1003595 | F-HEMBA1003595 | 0.08 |
| 10 | HEMBA1003597 | F-HEMBA1003597 | 0.1  |
|    | HEMBA1003598 | F-HEMBA1003598 | 0.12 |
|    | HEMBA1003622 | F-HEMBA1003622 | 0.08 |
|    | HEMBA1003630 | F-HEMBA1003630 | 0.08 |
| 15 | HEMBA1003637 | F-HEMBA1003637 | 0.07 |
|    | HEMBA1003640 | F-HEMBA1003640 | 0.16 |
|    | HEMBA1003656 | F-HEMBA1003656 | 0.13 |
|    | HEMBA1003714 | F-HEMBA1003714 | 0.12 |
| 20 | HEMBA1003715 | F-HEMBA1003715 | 0.1  |
|    | HEMBA1003725 | F-HEMBA1003725 | 0.08 |
|    | HEMBA1003733 | F-HEMBA1003733 | 0.2  |
|    | HEMBA1003758 | F-HEMBA1003758 | 0.06 |
| 25 | HEMBA1003773 | F-HEMBA1003773 | 0.11 |
|    | HEMBA1003784 | F-HEMBA1003784 | 0.09 |
|    | HEMBA1003856 | F-HEMBA1003856 | 0.25 |
|    | HEMBA1003885 | F-HEMBA1003885 | 0.09 |
| 30 | HEMBA1003902 | F-HEMBA1003902 | 0.08 |
|    | HEMBA1003908 | F-HEMBA1003908 | 0.08 |
|    | HEMBA1003926 | F-HEMBA1003926 | 0.09 |
|    | HEMBA1003937 | F-HEMBA1003937 | 0.2  |
|    | HEMBA1003939 | F-HEMBA1003939 | 0.12 |
| 35 | HEMBA1003942 | F-HEMBA1003942 | 0.1  |
|    | HEMBA1003950 | F-HEMBA1003950 | 0.09 |
|    | HEMBA1003958 | F-HEMBA1003958 | 0.07 |
|    | HEMBA1003976 | F-HEMBA1003976 | 0.28 |
| 40 | HEMBA1003987 | F-HEMBA1003987 | 0.24 |
|    | HEMBA1004000 | F-HEMBA1004000 | 0.16 |
|    | HEMBA1004012 | F-HEMBA1004012 | 0.12 |
|    | HEMBA1004015 | F-HEMBA1004015 | 0.23 |
| 45 | HEMBA1004024 | F-HEMBA1004024 | 0.13 |
|    | HEMBA1004038 | F-HEMBA1004038 | 0.09 |
|    | HEMBA1004042 | F-HEMBA1004042 | 0.09 |
|    | HEMBA1004045 | F-HEMBA1004045 | 0.09 |
| 50 | HEMBA1004049 | F-HEMBA1004049 | 0.09 |
|    | HEMBA1004132 | F-HEMBA1004132 | 0.08 |
|    | HEMBA1004138 | F-HEMBA1004138 | 0.07 |
|    | HEMBA1004164 | F-HEMBA1004164 | 0.08 |
| 55 | HEMBA1004225 | F-HEMBA1004225 | 0.1  |
|    | HEMBA1004241 | F-HEMBA1004241 | 0.08 |

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|    | HEMBA1004267 | F-HEMBA1004267 | 0.09 |
|    | HEMBA1004272 | F-HEMBA1004272 | 0.09 |
|    | HEMBA1004295 | F-HEMBA1004295 | 0.19 |
| 5  | HEMBA1004306 | F-HEMBA1004306 | 0.07 |
|    | HEMBA1004312 | F-HEMBA1004312 | 0.26 |
|    | HEMBA1004323 | F-HEMBA1004323 | 0.13 |
|    | HEMBA1004334 | F-HEMBA1004334 | 0.06 |
| 10 | HEMBA1004354 | F-HEMBA1004354 | 0.1  |
|    | HEMBA1004356 | F-HEMBA1004356 | 0.07 |
|    | HEMBA1004366 | F-HEMBA1004366 | 0.14 |
|    | HEMBA1004394 | F-HEMBA1004394 | 0.08 |
| 15 | HEMBA1004396 | F-HEMBA1004396 | 0.05 |
|    | HEMBA1004405 | F-HEMBA1004405 | 0.17 |
|    | HEMBA1004429 | F-HEMBA1004429 | 0.22 |
|    | HEMBA1004433 | F-HEMBA1004433 | 0.29 |
| 20 | HEMBA1004460 | F-HEMBA1004460 | 0.11 |
|    | HEMBA1004461 | F-HEMBA1004461 | 0.11 |
|    | HEMBA1004482 | F-HEMBA1004482 | 0.15 |
|    | HEMBA1004506 | F-HEMBA1004506 | 0.05 |
| 25 | HEMBA1004538 | F-HEMBA1004538 | 0.15 |
|    | HEMBA1004577 | F-HEMBA1004577 | 0.17 |
|    | HEMBA1004586 | F-HEMBA1004586 | 0.06 |
|    | HEMBA1004617 | F-HEMBA1004617 | 0.11 |
|    | HEMBA1004629 | F-HEMBA1004629 | 0.11 |
| 30 | HEMBA1004631 | F-HEMBA1004631 | 0.1  |
|    | HEMBA1004666 | F-HEMBA1004666 | 0.08 |
|    | HEMBA1004670 | F-HEMBA1004670 | 0.15 |
|    | HEMBA1004672 | F-HEMBA1004672 | 0.14 |
| 35 | HEMBA1004730 | F-HEMBA1004730 | 0.15 |
|    | HEMBA1004733 | F-HEMBA1004733 | 0.12 |
|    | HEMBA1004748 | F-HEMBA1004748 | 0.1  |
|    | HEMBA1004770 | F-HEMBA1004770 | 0.15 |
| 40 | HEMBA1004778 | F-HEMBA1004778 | 0.14 |
|    | HEMBA1004803 | F-HEMBA1004803 | 0.13 |
|    | HEMBA1004807 | F-HEMBA1004807 | 0.18 |
|    | HEMBA1004816 | F-HEMBA1004816 | 0.06 |
| 45 | HEMBA1004820 | F-HEMBA1004820 | 0.11 |
|    | HEMBA1004865 | F-HEMBA1004865 | 0.17 |
|    | HEMBA1004880 | F-HEMBA1004880 | 0.28 |
|    | HEMBA1004900 | F-HEMBA1004900 | 0.11 |
|    | HEMBA1004909 | F-HEMBA1004909 | 0.11 |
| 50 | HEMBA1004918 | F-HEMBA1004918 | 0.09 |
|    | HEMBA1004956 | F-HEMBA1004956 | 0.05 |
|    | HEMBA1004960 | F-HEMBA1004960 | 0.21 |
|    | HEMBA1004978 | F-HEMBA1004978 | 0.1  |
| 55 | HEMBA1004983 | F-HEMBA1004983 | 0.28 |

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|    | HEMBA1004995 | F-HEMBA1004995 | 0.24 |
|    | HEMBA1005008 | F-HEMBA1005008 | 0.07 |
| 5  | HEMBA1005039 | F-HEMBA1005039 | 0.08 |
|    | HEMBA1005062 | F-HEMBA1005062 | 0.11 |
|    | HEMBA1005123 | F-HEMBA1005123 | 0.07 |
|    | HEMBA1005152 | F-HEMBA1005152 | 0.11 |
|    | HEMBA1005159 | F-HEMBA1005159 | 0.1  |
| 10 | HEMBA1005232 | F-HEMBA1005232 | 0.1  |
|    | HEMBA1005241 | F-HEMBA1005241 | 0.14 |
|    | HEMBA1005251 | F-HEMBA1005251 | 0.29 |
|    | HEMBA1005274 | F-HEMBA1005274 | 0.06 |
| 15 | HEMBA1005275 | F-HEMBA1005275 | 0.12 |
|    | HEMBA1005293 | F-HEMBA1005293 | 0.06 |
|    | HEMBA1005304 | F-HEMBA1005304 | 0.09 |
|    | HEMBA1005311 | F-HEMBA1005311 | 0.2  |
| 20 | HEMBA1005315 | F-HEMBA1005315 | 0.07 |
|    | HEMBA1005318 | F-HEMBA1005318 | 0.08 |
|    | HEMBA1005353 | F-HEMBA1005353 | 0.12 |
|    | HEMBA1005359 | F-HEMBA1005359 | 0.15 |
| 25 | HEMBA1005372 | F-HEMBA1005372 | 0.07 |
|    | HEMBA1005374 | F-HEMBA1005374 | 0.09 |
|    | HEMBA1005389 | F-HEMBA1005389 | 0.1  |
|    | HEMBA1005408 | F-HEMBA1005408 | 0.09 |
| 30 | HEMBA1005410 | F-HEMBA1005410 | 0.07 |
|    | HEMBA1005426 | F-HEMBA1005426 | 0.16 |
|    | HEMBA1005443 | F-HEMBA1005443 | 0.17 |
|    | HEMBA1005447 | F-HEMBA1005447 | 0.25 |
| 35 | HEMBA1005497 | F-HEMBA1005497 | 0.09 |
|    | HEMBA1005500 | F-HEMBA1005500 | 0.08 |
|    | HEMBA1005506 | F-HEMBA1005506 | 0.17 |
|    | HEMBA1005508 | F-HEMBA1005508 | 0.12 |
|    | HEMBA1005511 | F-HEMBA1005511 | 0.1  |
| 40 | HEMBA1005520 | F-HEMBA1005520 | 0.07 |
|    | HEMBA1005552 | F-HEMBA1005552 | 0.05 |
|    | HEMBA1005568 | F-HEMBA1005568 | 0.06 |
|    | HEMBA1005570 | F-HEMBA1005570 | 0.1  |
| 45 | HEMBA1005577 | F-HEMBA1005577 | 0.13 |
|    | HEMBA1005588 | F-HEMBA1005588 | 0.25 |
|    | HEMBA1005593 | F-HEMBA1005593 | 0.13 |
|    | HEMBA1005606 | F-HEMBA1005606 | 0.16 |
| 50 | HEMBA1005616 | F-HEMBA1005616 | 0.15 |
|    | HEMBA1005627 | F-HEMBA1005627 | 0.11 |
|    | HEMBA1005631 | F-HEMBA1005631 | 0.07 |
|    | HEMBA1005632 | F-HEMBA1005632 | 0.07 |
|    | HEMBA1005634 | F-HEMBA1005634 | 0.07 |
| 55 | HEMBA1005670 | F-HEMBA1005670 | 0.11 |

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|    | HEMBA1005679 | F-HEMBA1005679 | 0.22 |
|    | HEMBA1005699 | F-HEMBA1005699 | 0.08 |
| 5  | HEMBA1005705 | F-HEMBA1005705 | 0.08 |
|    | HEMBA1005717 | F-HEMBA1005717 | 0.17 |
|    | HEMBA1005765 | F-HEMBA1005765 | 0.08 |
|    | HEMBA1005780 | F-HEMBA1005780 | 0.16 |
|    | HEMBA1005829 | F-HEMBA1005829 | 0.09 |
| 10 | HEMBA1005853 | F-HEMBA1005853 | 0.06 |
|    | HEMBA1005894 | F-HEMBA1005894 | 0.16 |
|    | HEMBA1005909 | F-HEMBA1005909 | 0.13 |
|    | HEMBA1005911 | F-HEMBA1005911 | 0.22 |
| 15 | HEMBA1005921 | F-HEMBA1005921 | 0.1  |
|    | HEMBA1005931 | F-HEMBA1005931 | 0.16 |
|    | HEMBA1005934 | F-HEMBA1005934 | 0.1  |
|    | HEMBA1005962 | F-HEMBA1005962 | 0.07 |
| 20 | HEMBA1005999 | F-HEMBA1005999 | 0.14 |
|    | HEMBA1006002 | F-HEMBA1006002 | 0.09 |
|    | HEMBA1006005 | F-HEMBA1006005 | 0.2  |
|    | HEMBA1006036 | F-HEMBA1006036 | 0.24 |
| 25 | HEMBA1006042 | F-HEMBA1006042 | 0.11 |
|    | HEMBA1006067 | F-HEMBA1006067 | 0.09 |
|    | HEMBA1006090 | F-HEMBA1006090 | 0.09 |
|    | HEMBA1006124 | F-HEMBA1006124 | 0.05 |
| 30 | HEMBA1006142 | F-HEMBA1006142 | 0.13 |
|    | HEMBA1006158 | F-HEMBA1006158 | 0.27 |
|    | HEMBA1006253 | F-HEMBA1006253 | 0.29 |
|    | HEMBA1006259 | F-HEMBA1006259 | 0.11 |
|    | HEMBA1006268 | F-HEMBA1006268 | 0.11 |
| 35 | HEMBA1006328 | F-HEMBA1006328 | 0.06 |
|    | HEMBA1006334 | F-HEMBA1006334 | 0.08 |
|    | HEMBA1006359 | F-HEMBA1006359 | 0.22 |
|    | HEMBA1006364 | F-HEMBA1006364 | 0.23 |
| 40 | HEMBA1006380 | F-HEMBA1006380 | 0.09 |
|    | HEMBA1006416 | F-HEMBA1006416 | 0.25 |
|    | HEMBA1006419 | F-HEMBA1006419 | 0.08 |
|    | HEMBA1006421 | F-HEMBA1006421 | 0.26 |
| 45 | HEMBA1006426 | F-HEMBA1006426 | 0.17 |
|    | HEMBA1006438 | F-HEMBA1006438 | 0.08 |
|    | HEMBA1006446 | F-HEMBA1006446 | 0.11 |
|    | HEMBA1006461 | F-HEMBA1006461 | 0.15 |
| 50 | HEMBA1006471 | F-HEMBA1006471 | 0.06 |
|    | HEMBA1006486 | F-HEMBA1006486 | 0.11 |
|    | HEMBA1006489 | F-HEMBA1006489 | 0.09 |
|    | HEMBA1006540 | F-HEMBA1006540 | 0.23 |
|    | HEMBA1006546 | F-HEMBA1006546 | 0.07 |
| 55 | HEMBA1006562 | F-HEMBA1006562 | 0.12 |



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|    | HEMBA1006569 | F-HEMBA1006569 |      |
|    | HEMBA1006595 | F-HEMBA1006595 | 0.08 |
|    | HEMBA1006597 | F-HEMBA1006597 | 0.17 |
| 5  | HEMBA1006617 | F-HEMBA1006617 | 0.07 |
|    | HEMBA1006635 | F-HEMBA1006635 | 0.07 |
|    | HEMBA1006639 | F-HEMBA1006639 | 0.25 |
|    | HEMBA1006648 | F-HEMBA1006648 | 0.24 |
| 10 | HEMBA1006653 | F-HEMBA1006653 | 0.09 |
|    | HEMBA1006665 | F-HEMBA1006665 | 0.17 |
|    | HEMBA1006676 | F-HEMBA1006676 | 0.17 |
|    | HEMBA1006695 | F-HEMBA1006695 | 0.1  |
| 15 | HEMBA1006696 | F-HEMBA1006696 | 0.05 |
|    | HEMBA1006744 | F-HEMBA1006744 | 0.12 |
|    | HEMBA1006779 | F-HEMBA1006779 | 0.07 |
|    | HEMBA1006780 | F-HEMBA1006780 | 0.23 |
| 20 | HEMBA1006821 | F-HEMBA1006821 | 0.08 |
|    | HEMBA1006824 | F-HEMBA1006824 | 0.09 |
|    | HEMBA1006849 | F-HEMBA1006849 | 0.05 |
|    | HEMBA1006865 | F-HEMBA1006865 | 0.1  |
| 25 | HEMBA1006921 | F-HEMBA1006921 | 0.22 |
|    | HEMBA1006929 | F-HEMBA1006929 | 0.15 |
|    | HEMBA1006938 | F-HEMBA1006938 | 0.07 |
|    | HEMBA1006949 | F-HEMBA1006949 | 0.27 |
| 30 | HEMBA1007017 | F-HEMBA1007017 | 0.07 |
|    | HEMBA1007045 | F-HEMBA1007045 | 0.14 |
|    | HEMBA1007051 | F-HEMBA1007051 | 0.19 |
|    | HEMBA1007073 | F-HEMBA1007073 | 0.22 |
|    | HEMBA1007078 | F-HEMBA1007078 | 0.12 |
| 35 | HEMBA1007113 | F-HEMBA1007113 | 0.12 |
|    | HEMBA1007129 | F-HEMBA1007129 | 0.18 |
|    | HEMBA1007147 | F-HEMBA1007147 | 0.08 |
|    | HEMBA1007206 | F-HEMBA1007206 | 0.11 |
| 40 | HEMBA1007256 | F-HEMBA1007256 | 0.13 |
|    | HEMBA1007273 | F-HEMBA1007273 | 0.05 |
|    | HEMBA1007279 | F-HEMBA1007279 | 0.09 |
|    | HEMBA1007288 | F-HEMBA1007288 | 0.06 |
| 45 | HEMBA1007322 | F-HEMBA1007322 | 0.12 |
|    | HEMBA1007327 | F-HEMBA1007327 | 0.12 |
|    | HEMBA1007341 | F-HEMBA1007341 | 0.1  |
|    | HEMBA1007347 | F-HEMBA1007347 | 0.14 |
| 50 | HEMBA1000005 | F-HEMBA1000005 | 0.13 |
|    | HEMBA1000039 | F-HEMBA1000039 | 0.07 |
|    | HEMBA1000044 | F-HEMBA1000044 | 0.08 |
|    | HEMBA1000050 | F-HEMBA1000050 | 0.07 |
|    | HEMBA1000054 | F-HEMBA1000054 | 0.12 |
| 55 | HEMBA1000055 | F-HEMBA1000055 | 0.2  |

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|    | HEMBB1000059 | F-HEMBB1000059 | 0.08 |
|    | HEMBB1000089 | F-HEMBB1000089 | 0.09 |
|    | HEMBB1000099 | F-HEMBB1000099 | 0.17 |
| 5  | HEMBB1000113 | F-HEMBB1000113 | 0.12 |
|    | HEMBB1000141 | F-HEMBB1000141 | 0.13 |
|    | HEMBB1000144 | F-HEMBB1000144 | 0.2  |
|    | HEMBB1000218 | F-HEMBB1000218 | 0.07 |
| 10 | HEMBB1000250 | F-HEMBB1000250 | 0.26 |
|    | HEMBB1000258 | F-HEMBB1000258 | 0.15 |
|    | HEMBB1000264 | F-HEMBB1000264 | 0.08 |
|    | HEMBB1000272 | F-HEMBB1000272 | 0.11 |
| 15 | HEMBB1000274 | F-HEMBB1000274 | 0.12 |
|    | HEMBB1000284 | F-HEMBB1000284 | 0.1  |
|    | HEMBB1000307 | F-HEMBB1000307 | 0.11 |
|    | HEMBB1000312 | F-HEMBB1000312 | 0.07 |
| 20 | HEMBB1000317 | F-HEMBB1000317 | 0.27 |
|    | HEMBB1000318 | F-HEMBB1000318 | 0.11 |
|    | HEMBB1000335 | F-HEMBB1000335 | 0.15 |
|    | HEMBB1000336 | F-HEMBB1000336 | 0.28 |
| 25 | HEMBB1000337 | F-HEMBB1000337 | 0.25 |
|    | HEMBB1000341 | F-HEMBB1000341 | 0.24 |
|    | HEMBB1000343 | F-HEMBB1000343 | 0.07 |
|    | HEMBB1000354 | F-HEMBB1000354 | 0.15 |
|    | HEMBB1000369 | F-HEMBB1000369 | 0.08 |
| 30 | HEMBB1000374 | F-HEMBB1000374 | 0.3  |
|    | HEMBB1000376 | F-HEMBB1000376 | 0.12 |
|    | HEMBB1000399 | F-HEMBB1000399 | 0.08 |
|    | HEMBB1000402 | F-HEMBB1000402 | 0.29 |
| 35 | HEMBB1000404 | F-HEMBB1000404 | 0.29 |
|    | HEMBB1000420 | F-HEMBB1000420 | 0.11 |
|    | HEMBB1000434 | F-HEMBB1000434 | 0.05 |
|    | HEMBB1000441 | F-HEMBB1000441 | 0.12 |
| 40 | HEMBB1000455 | F-HEMBB1000455 | 0.05 |
|    | HEMBB1000472 | F-HEMBB1000472 | 0.05 |
|    | HEMBB1000480 | F-HEMBB1000480 | 0.13 |
|    | HEMBB1000487 | F-HEMBB1000487 | 0.09 |
| 45 | HEMBB1000490 | F-HEMBB1000490 | 0.06 |
|    | HEMBB1000491 | F-HEMBB1000491 | 0.16 |
|    | HEMBB1000493 | F-HEMBB1000493 | 0.15 |
|    | HEMBB1000518 | F-HEMBB1000518 | 0.05 |
|    | HEMBB1000523 | F-HEMBB1000523 | 0.07 |
| 50 | HEMBB1000530 | F-HEMBB1000530 | 0.14 |
|    | HEMBB1000554 | F-HEMBB1000554 | 0.23 |
|    | HEMBB1000564 | F-HEMBB1000564 | 0.09 |
|    | HEMBB1000573 | F-HEMBB1000573 | 0.1  |
| 55 | HEMBB1000575 | F-HEMBB1000575 | 0.08 |

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|    | HEMBB1000586 | F-HEMBB1000586 | 0.12 |
|    | HEMBB1000598 | F-HEMBB1000598 | 0.12 |
| 5  | HEMBB1000637 | F-HEMBB1000637 | 0.19 |
|    | HEMBB1000638 | F-HEMBB1000638 | 0.07 |
|    | HEMBB1000643 | F-HEMBB1000643 | 0.07 |
|    | HEMBB1000649 | F-HEMBB1000649 | 0.13 |
|    | HEMBB1000652 | F-HEMBB1000652 | 0.2  |
| 10 | HEMBB1000665 | F-HEMBB1000665 | 0.07 |
|    | HEMBB1000684 | F-HEMBB1000684 | 0.06 |
|    | HEMBB1000709 | F-HEMBB1000709 | 0.09 |
|    | HEMBB1000726 | F-HEMBB1000726 | 0.07 |
| 15 | HEMBB1000738 | F-HEMBB1000738 | 0.19 |
|    | HEMBB1000749 | F-HEMBB1000749 | 0.14 |
|    | HEMBB1000770 | F-HEMBB1000770 | 0.09 |
|    | HEMBB1000790 | F-HEMBB1000790 | 0.23 |
| 20 | HEMBB1000794 | F-HEMBB1000794 | 0.09 |
|    | HEMBB1000821 | F-HEMBB1000821 | 0.1  |
|    | HEMBB1000822 | F-HEMBB1000822 | 0.18 |
|    | HEMBB1000827 | F-HEMBB1000827 | 0.1  |
| 25 | HEMBB1000831 | F-HEMBB1000831 | 0.2  |
|    | HEMBB1000840 | F-HEMBB1000840 | 0.09 |
|    | HEMBB1000876 | F-HEMBB1000876 | 0.12 |
|    | HEMBB1000883 | F-HEMBB1000883 | 0.13 |
|    | HEMBB1000888 | F-HEMBB1000888 | 0.1  |
| 30 | HEMBB1000890 | F-HEMBB1000890 | 0.09 |
|    | HEMBB1000893 | F-HEMBB1000893 | 0.1  |
|    | HEMBB1000910 | F-HEMBB1000910 | 0.06 |
|    | HEMBB1000913 | F-HEMBB1000913 | 0.09 |
| 35 | HEMBB1000915 | F-HEMBB1000915 | 0.12 |
|    | HEMBB1000917 | F-HEMBB1000917 | 0.15 |
|    | HEMBB1000959 | F-HEMBB1000959 | 0.08 |
|    | HEMBB1000981 | F-HEMBB1000981 | 0.09 |
| 40 | HEMBB1000996 | F-HEMBB1000996 | 0.1  |
|    | HEMBB1001004 | F-HEMBB1001004 | 0.08 |
|    | HEMBB1001008 | F-HEMBB1001008 | 0.25 |
|    | HEMBB1001037 | F-HEMBB1001037 | 0.14 |
| 45 | HEMBB1001047 | F-HEMBB1001047 | 0.14 |
|    | HEMBB1001051 | F-HEMBB1001051 | 0.13 |
|    | HEMBB1001060 | F-HEMBB1001060 | 0.16 |
|    | HEMBB1001063 | F-HEMBB1001063 | 0.1  |
| 50 | HEMBB1001102 | F-HEMBB1001102 | 0.19 |
|    | HEMBB1001114 | F-HEMBB1001114 | 0.08 |
|    | HEMBB1001119 | F-HEMBB1001119 | 0.13 |
|    | HEMBB1001133 | F-HEMBB1001133 | 0.06 |
|    | HEMBB1001142 | F-HEMBB1001142 | 0.17 |
| 55 | HEMBB1001177 | F-HEMBB1001177 | 0.2  |

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|    | HEMBB1001208 | F-HEMBB1001208 | 0.12 |
|    | HEMBB1001209 | F-HEMBB1001209 | 0.11 |
|    | HEMBB1001218 | F-HEMBB1001218 | 0.1  |
| 5  | HEMBB1001221 | F-HEMBB1001221 | 0.1  |
|    | HEMBB1001249 | F-HEMBB1001249 | 0.12 |
|    | HEMBB1001253 | F-HEMBB1001253 | 0.13 |
|    | HEMBB1001254 | F-HEMBB1001254 | 0.13 |
| 10 | HEMBB1001267 | F-HEMBB1001267 | 0.09 |
|    | HEMBB1001271 | F-HEMBB1001271 | 0.16 |
|    | HEMBB1001282 | F-HEMBB1001282 | 0.14 |
|    | HEMBB1001302 | F-HEMBB1001302 | 0.18 |
| 15 | HEMBB1001304 | F-HEMBB1001304 | 0.17 |
|    | HEMBB1001315 | F-HEMBB1001315 | 0.18 |
|    | HEMBB1001317 | F-HEMBB1001317 | 0.12 |
|    | HEMBB1001326 | F-HEMBB1001326 | 0.09 |
| 20 | HEMBB1001335 | F-HEMBB1001335 | 0.08 |
|    | HEMBB1001337 | F-HEMBB1001337 | 0.12 |
|    | HEMBB1001348 | F-HEMBB1001348 | 0.11 |
|    | HEMBB1001356 | F-HEMBB1001356 | 0.1  |
| 25 | HEMBB1001366 | F-HEMBB1001366 | 0.16 |
|    | HEMBB1001367 | F-HEMBB1001367 | 0.11 |
|    | HEMBB1001380 | F-HEMBB1001380 | 0.07 |
|    | HEMBB1001424 | F-HEMBB1001424 | 0.05 |
| 30 | HEMBB1001436 | F-HEMBB1001436 | 0.14 |
|    | HEMBB1001443 | F-HEMBB1001443 | 0.28 |
|    | HEMBB1001454 | F-HEMBB1001454 |      |
|    | HEMBB1001458 | F-HEMBB1001458 | 0.11 |
|    | HEMBB1001463 | F-HEMBB1001463 | 0.1  |
| 35 | HEMBB1001464 | F-HEMBB1001464 | 0.06 |
|    | HEMBB1001500 | F-HEMBB1001500 | 0.11 |
|    | HEMBB1001521 | F-HEMBB1001521 | 0.13 |
|    | HEMBB1001527 | F-HEMBB1001527 | 0.13 |
| 40 | HEMBB1001535 | F-HEMBB1001535 | 0.11 |
|    | HEMBB1001536 | F-HEMBB1001536 | 0.08 |
|    | HEMBB1001537 | F-HEMBB1001537 | 0.11 |
|    | HEMBB1001555 | F-HEMBB1001555 | 0.08 |
| 45 | HEMBB1001565 | F-HEMBB1001565 | 0.1  |
|    | HEMBB1001586 | F-HEMBB1001586 | 0.06 |
|    | HEMBB1001588 | F-HEMBB1001588 | 0.06 |
|    | HEMBB1001618 | F-HEMBB1001618 | 0.09 |
| 50 | HEMBB1001619 | F-HEMBB1001619 | 0.12 |
|    | HEMBB1001630 | F-HEMBB1001630 | 0.12 |
|    | HEMBB1001637 | F-HEMBB1001637 | 0.08 |
|    | HEMBB1001641 | F-HEMBB1001641 | 0.09 |
| 55 | HEMBB1001704 | F-HEMBB1001704 | 0.09 |
|    | HEMBB1001706 | F-HEMBB1001706 | 0.11 |

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|----|--------------|----------------|------|
|    | HEMBB1001717 | F-HEMBB1001717 | 0.09 |
|    | HEMBB1001735 | F-HEMBB1001735 | 0.21 |
| 5  | HEMBB1001747 | F-HEMBB1001747 | 0.07 |
|    | HEMBB1001749 | F-HEMBB1001749 | 0.13 |
|    | HEMBB1001753 | F-HEMBB1001753 | 0.08 |
|    | HEMBB1001756 | F-HEMBB1001756 | 0.11 |
|    | HEMBB1001762 | F-HEMBB1001762 | 0.11 |
| 10 | HEMBB1001797 | F-HEMBB1001797 | 0.13 |
|    | HEMBB1001802 | F-HEMBB1001802 | 0.06 |
|    | HEMBB1001836 | F-HEMBB1001836 | 0.15 |
|    | HEMBB1001850 | F-HEMBB1001850 | 0.06 |
| 15 | HEMBB1001863 | F-HEMBB1001863 | 0.09 |
|    | HEMBB1001867 | F-HEMBB1001867 | 0.11 |
|    | HEMBB1001868 | F-HEMBB1001868 | 0.24 |
|    | HEMBB1001875 | F-HEMBB1001875 | 0.05 |
| 20 | HEMBB1001880 | F-HEMBB1001880 | 0.08 |
|    | HEMBB1001899 | F-HEMBB1001899 | 0.16 |
|    | HEMBB1001911 | F-HEMBB1001911 | 0.22 |
|    | HEMBB1001921 | F-HEMBB1001921 | 0.07 |
| 25 | HEMBB1001922 | F-HEMBB1001922 | 0.11 |
|    | HEMBB1001925 | F-HEMBB1001925 | 0.19 |
|    | HEMBB1001930 | F-HEMBB1001930 | 0.1  |
|    | HEMBB1001944 | F-HEMBB1001944 | 0.14 |
| 30 | HEMBB1001952 | F-HEMBB1001952 | 0.08 |
|    | HEMBB1001953 | F-HEMBB1001953 | 0.15 |
|    | HEMBB1001967 | F-HEMBB1001967 | 0.08 |
|    | HEMBB1001973 | F-HEMBB1001973 | 0.09 |
|    | HEMBB1001983 | F-HEMBB1001983 | 0.1  |
| 35 | HEMBB1001988 | F-HEMBB1001988 | 0.15 |
|    | HEMBB1001996 | F-HEMBB1001996 | 0.19 |
|    | HEMBB1001997 | F-HEMBB1001997 | 0.08 |
|    | HEMBB1002002 | F-HEMBB1002002 | 0.21 |
| 40 | HEMBB1002005 | F-HEMBB1002005 | 0.18 |
|    | HEMBB1002009 | F-HEMBB1002009 | 0.09 |
|    | HEMBB1002015 | F-HEMBB1002015 | 0.26 |
|    | HEMBB1002042 | F-HEMBB1002042 | 0.11 |
| 45 | HEMBB1002043 | F-HEMBB1002043 | 0.09 |
|    | HEMBB1002045 | F-HEMBB1002045 | 0.26 |
|    | HEMBB1002049 | F-HEMBB1002049 | 0.12 |
|    | HEMBB1002069 | F-HEMBB1002069 | 0.12 |
| 50 | HEMBB1002092 | F-HEMBB1002092 | 0.16 |
|    | HEMBB1002094 | F-HEMBB1002094 | 0.11 |
|    | HEMBB1002115 | F-HEMBB1002115 | 0.09 |
|    | HEMBB1002139 | F-HEMBB1002139 | 0.13 |
|    | HEMBB1002189 | F-HEMBB1002189 | 0.06 |
| 55 | HEMBB1002190 | F-HEMBB1002190 | 0.18 |

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|    | HEMBB1002232 | F-HEMBB1002232 | 0.09 |
|    | HEMBB1002247 | F-HEMBB1002247 | 0.17 |
| 5  | HEMBB1002254 | F-HEMBB1002254 | 0.05 |
|    | HEMBB1002255 | F-HEMBB1002255 | 0.11 |
|    | HEMBB1002266 | F-HEMBB1002266 | 0.28 |
|    | HEMBB1002280 | F-HEMBB1002280 | 0.07 |
|    | HEMBB1002306 | F-HEMBB1002306 | 0.06 |
| 10 | HEMBB1002364 | F-HEMBB1002364 | 0.05 |
|    | HEMBB1002371 | F-HEMBB1002371 | 0.12 |
|    | HEMBB1002381 | F-HEMBB1002381 | 0.09 |
|    | HEMBB1002387 | F-HEMBB1002387 | 0.17 |
| 15 | HEMBB1002425 | F-HEMBB1002425 | 0.08 |
|    | HEMBB1002453 | F-HEMBB1002453 | 0.12 |
|    | HEMBB1002458 | F-HEMBB1002458 | 0.09 |
|    | HEMBB1002477 | F-HEMBB1002477 | 0.17 |
| 20 | HEMBB1002509 | F-HEMBB1002509 | 0.06 |
|    | HEMBB1002520 | F-HEMBB1002520 | 0.08 |
|    | HEMBB1002522 | F-HEMBB1002522 | 0.21 |
|    | HEMBB1002531 | F-HEMBB1002531 | 0.1  |
| 25 | HEMBB1002534 | F-HEMBB1002534 | 0.09 |
|    | HEMBB1002556 | F-HEMBB1002556 | 0.1  |
|    | HEMBB1002579 | F-HEMBB1002579 | 0.13 |
|    | HEMBB1002582 | F-HEMBB1002582 | 0.17 |
|    | HEMBB1002590 | F-HEMBB1002590 | 0.08 |
| 30 | HEMBB1002596 | F-HEMBB1002596 | 0.15 |
|    | HEMBB1002601 | F-HEMBB1002601 | 0.1  |
|    | HEMBB1002603 | F-HEMBB1002603 | 0.12 |
|    | HEMBB1002610 | F-HEMBB1002610 | 0.1  |
| 35 | HEMBB1002613 | F-HEMBB1002613 | 0.09 |
|    | HEMBB1002617 | F-HEMBB1002617 | 0.12 |
|    | HEMBB1002623 | F-HEMBB1002623 | 0.14 |
|    | HEMBB1002635 | F-HEMBB1002635 | 0.08 |
| 40 | HEMBB1002664 | F-HEMBB1002664 | 0.06 |
|    | HEMBB1002677 | F-HEMBB1002677 | 0.07 |
|    | HEMBB1002683 | F-HEMBB1002683 | 0.06 |
|    | HEMBB1002686 | F-HEMBB1002686 | 0.12 |
| 45 | HEMBB1002699 | F-HEMBB1002699 | 0.15 |
|    | HEMBB1002702 | F-HEMBB1002702 | 0.16 |
|    | HEMBB1002712 | F-HEMBB1002712 | 0.07 |
|    | MAMMA1000009 | F-MAMMA1000009 | 0.11 |
| 50 | MAMMA1000043 | F-MAMMA1000043 | 0.19 |
|    | MAMMA1000045 | F-MAMMA1000045 | 0.08 |
|    | MAMMA1000092 | F-MAMMA1000092 | 0.11 |
|    | MAMMA1000103 | F-MAMMA1000103 | 0.09 |
|    | MAMMA1000117 | F-MAMMA1000117 | 0.2  |
| 55 | MAMMA1000129 | F-MAMMA1000129 | 0.17 |

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|    | MAMMA1000133 | F-MAMMA1000133 | 0.1  |
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| 5  | MAMMA1000155 | F-MAMMA1000155 | 0.12 |
|    | MAMMA1000175 | F-MAMMA1000175 | 0.07 |
|    | MAMMA1000198 | F-MAMMA1000198 | 0.2  |
|    | MAMMA1000221 | F-MAMMA1000221 | 0.1  |
|    | MAMMA1000227 | F-MAMMA1000227 | 0.08 |
| 10 | MAMMA1000241 | F-MAMMA1000241 | 0.16 |
|    | MAMMA1000254 | F-MAMMA1000254 | 0.08 |
|    | MAMMA1000264 | F-MAMMA1000264 | 0.1  |
|    | MAMMA1000266 | F-MAMMA1000266 | 0.18 |
| 15 | MAMMA1000270 | F-MAMMA1000270 | 0.1  |
|    | MAMMA1000287 | F-MAMMA1000287 | 0.1  |
|    | MAMMA1000302 | F-MAMMA1000302 | 0.07 |
|    | MAMMA1000307 | F-MAMMA1000307 | 0.26 |
| 20 | MAMMA1000331 | F-MAMMA1000331 | 0.18 |
|    | MAMMA1000340 | F-MAMMA1000340 | 0.2  |
|    | MAMMA1000348 | F-MAMMA1000348 | 0.09 |
|    | MAMMA1000356 | F-MAMMA1000356 | 0.15 |
| 25 | MAMMA1000360 | F-MAMMA1000360 | 0.09 |
|    | MAMMA1000385 | F-MAMMA1000385 | 0.08 |
|    | MAMMA1000402 | F-MAMMA1000402 | 0.11 |
|    | MAMMA1000413 | F-MAMMA1000413 | 0.1  |
|    | MAMMA1000414 | F-MAMMA1000414 | 0.1  |
| 30 | MAMMA1000423 | F-MAMMA1000423 | 0.06 |
|    | MAMMA1000424 | F-MAMMA1000424 | 0.1  |
|    | MAMMA1000431 | F-MAMMA1000431 | 0.28 |
|    | MAMMA1000444 | F-MAMMA1000444 | 0.07 |
| 35 | MAMMA1000446 | F-MAMMA1000446 | 0.08 |
|    | MAMMA1000478 | F-MAMMA1000478 | 0.1  |
|    | MAMMA1000483 | F-MAMMA1000483 | 0.07 |
|    | MAMMA1000500 | F-MAMMA1000500 | 0.16 |
| 40 | MAMMA1000501 | F-MAMMA1000501 | 0.05 |
|    | MAMMA1000516 | F-MAMMA1000516 | 0.06 |
|    | MAMMA1000522 | F-MAMMA1000522 | 0.21 |
|    | MAMMA1000559 | F-MAMMA1000559 | 0.12 |
| 45 | MAMMA1000565 | F-MAMMA1000565 | 0.09 |
|    | MAMMA1000576 | F-MAMMA1000576 | 0.14 |
|    | MAMMA1000585 | F-MAMMA1000585 | 0.07 |
|    | MAMMA1000594 | F-MAMMA1000594 | 0.17 |
|    | MAMMA1000597 | F-MAMMA1000597 | 0.1  |
| 50 | MAMMA1000605 | F-MAMMA1000605 | 0.09 |
|    | MAMMA1000616 | F-MAMMA1000616 | 0.08 |
|    | MAMMA1000621 | F-MAMMA1000621 | 0.07 |
|    | MAMMA1000643 | F-MAMMA1000643 | 0.1  |
| 55 | MAMMA1000669 | F-MAMMA1000669 | 0.11 |

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|----|--------------|----------------|------|
|    | MAMMA1000696 | F-MAMMA1000696 | 0.08 |
|    | MAMMA1000707 | F-MAMMA1000707 | 0.07 |
|    | MAMMA1000714 | F-MAMMA1000714 | 0.18 |
| 5  | MAMMA1000718 | F-MAMMA1000718 | 0.06 |
|    | MAMMA1000720 | F-MAMMA1000720 | 0.15 |
|    | MAMMA1000723 | F-MAMMA1000723 | 0.14 |
|    | MAMMA1000732 | F-MAMMA1000732 | 0.06 |
| 10 | MAMMA1000733 | F-MAMMA1000733 | 0.1  |
|    | MAMMA1000744 | F-MAMMA1000744 | 0.15 |
|    | MAMMA1000752 | F-MAMMA1000752 | 0.12 |
|    | MAMMA1000761 | F-MAMMA1000761 | 0.24 |
| 15 | MAMMA1000775 | F-MAMMA1000775 | 0.24 |
|    | MAMMA1000778 | F-MAMMA1000778 | 0.09 |
|    | MAMMA1000782 | F-MAMMA1000782 | 0.1  |
|    | MAMMA1000798 | F-MAMMA1000798 | 0.16 |
| 20 | MAMMA1000802 | F-MAMMA1000802 | 0.11 |
|    | MAMMA1000839 | F-MAMMA1000839 | 0.09 |
|    | MAMMA1000845 | F-MAMMA1000845 | 0.1  |
|    | MAMMA1000851 | F-MAMMA1000851 | 0.08 |
| 25 | MAMMA1000855 | F-MAMMA1000855 | 0.23 |
|    | MAMMA1000862 | F-MAMMA1000862 | 0.12 |
|    | MAMMA1000863 | F-MAMMA1000863 | 0.16 |
|    | MAMMA1000867 | F-MAMMA1000867 | 0.25 |
|    | MAMMA1000876 | F-MAMMA1000876 | 0.14 |
| 30 | MAMMA1000877 | F-MAMMA1000877 | 0.07 |
|    | MAMMA1000880 | F-MAMMA1000880 | 0.13 |
|    | MAMMA1000883 | F-MAMMA1000883 | 0.3  |
|    | MAMMA1000905 | F-MAMMA1000905 | 0.08 |
| 35 | MAMMA1000931 | F-MAMMA1000931 | 0.18 |
|    | MAMMA1000940 | F-MAMMA1000940 | 0.21 |
|    | MAMMA1000941 | F-MAMMA1000941 | 0.13 |
|    | MAMMA1000942 | F-MAMMA1000942 | 0.08 |
| 40 | MAMMA1000943 | F-MAMMA1000943 | 0.09 |
|    | MAMMA1000957 | F-MAMMA1000957 | 0.13 |
|    | MAMMA1000962 | F-MAMMA1000962 | 0.06 |
|    | MAMMA1000975 | F-MAMMA1000975 | 0.26 |
| 45 | MAMMA1000987 | F-MAMMA1000987 | 0.08 |
|    | MAMMA1000998 | F-MAMMA1000998 | 0.08 |
|    | MAMMA1001003 | F-MAMMA1001003 | 0.15 |
|    | MAMMA1001024 | F-MAMMA1001024 | 0.08 |
| 50 | MAMMA1001030 | F-MAMMA1001030 | 0.2  |
|    | MAMMA1001035 | F-MAMMA1001035 | 0.08 |
|    | MAMMA1001038 | F-MAMMA1001038 | 0.15 |
|    | MAMMA1001050 | F-MAMMA1001050 | 0.06 |
|    | MAMMA1001067 | F-MAMMA1001067 | 0.08 |
| 55 | MAMMA1001074 | F-MAMMA1001074 | 0.09 |



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|----|--------------|----------------|------|
|    | MAMMA1001082 | F-MAMMA1001082 | 0.1  |
|    | MAMMA1001092 | F-MAMMA1001092 | 0.05 |
|    | MAMMA1001133 | F-MAMMA1001133 | 0.11 |
| 5  | MAMMA1001145 | F-MAMMA1001145 | 0.05 |
|    | MAMMA1001161 | F-MAMMA1001161 | 0.11 |
|    | MAMMA1001162 | F-MAMMA1001162 | 0.11 |
|    | MAMMA1001186 | F-MAMMA1001186 | 0.09 |
| 10 | MAMMA1001191 | F-MAMMA1001191 | 0.08 |
|    | MAMMA1001203 | F-MAMMA1001203 | 0.08 |
|    | MAMMA1001206 | F-MAMMA1001206 | 0.09 |
|    | MAMMA1001220 | F-MAMMA1001220 | 0.1  |
| 15 | MAMMA1001243 | F-MAMMA1001243 | 0.14 |
|    | MAMMA1001249 | F-MAMMA1001249 | 0.13 |
|    | MAMMA1001256 | F-MAMMA1001256 | 0.1  |
|    | MAMMA1001268 | F-MAMMA1001268 | 0.26 |
| 20 | MAMMA1001274 | F-MAMMA1001274 | 0.13 |
|    | MAMMA1001280 | F-MAMMA1001280 | 0.1  |
|    | MAMMA1001298 | F-MAMMA1001298 | 0.07 |
|    | MAMMA1001322 | F-MAMMA1001322 | 0.18 |
| 25 | MAMMA1001324 | F-MAMMA1001324 | 0.25 |
|    | MAMMA1001330 | F-MAMMA1001330 | 0.13 |
|    | MAMMA1001341 | F-MAMMA1001341 | 0.16 |
|    | MAMMA1001383 | F-MAMMA1001383 | 0.05 |
|    | MAMMA1001397 | F-MAMMA1001397 | 0.22 |
| 30 | MAMMA1001408 | F-MAMMA1001408 | 0.06 |
|    | MAMMA1001420 | F-MAMMA1001420 | 0.1  |
|    | MAMMA1001435 | F-MAMMA1001435 | 0.07 |
|    | MAMMA1001442 | F-MAMMA1001442 | 0.13 |
| 35 | MAMMA1001446 | F-MAMMA1001446 | 0.08 |
|    | MAMMA1001452 | F-MAMMA1001452 | 0.1  |
|    | MAMMA1001501 | F-MAMMA1001501 | 0.12 |
|    | MAMMA1001502 | F-MAMMA1001502 | 0.09 |
| 40 | MAMMA1001547 | F-MAMMA1001547 | 0.22 |
|    | MAMMA1001575 | F-MAMMA1001575 | 0.08 |
|    | MAMMA1001590 | F-MAMMA1001590 | 0.14 |
|    | MAMMA1001606 | F-MAMMA1001606 | 0.13 |
| 45 | MAMMA1001663 | F-MAMMA1001663 | 0.11 |
|    | MAMMA1001670 | F-MAMMA1001670 | 0.2  |
|    | MAMMA1001671 | F-MAMMA1001671 | 0.13 |
|    | MAMMA1001679 | F-MAMMA1001679 | 0.13 |
|    | MAMMA1001683 | F-MAMMA1001683 | 0.16 |
| 50 | MAMMA1001686 | F-MAMMA1001686 | 0.09 |
|    | MAMMA1001711 | F-MAMMA1001711 | 0.11 |
|    | MAMMA1001715 | F-MAMMA1001715 | 0.11 |
|    | MAMMA1001740 | F-MAMMA1001740 | 0.1  |
| 55 | MAMMA1001745 | F-MAMMA1001745 | 0.09 |

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|----|--------------|----------------|------|
|    | MAMMA1001760 | F-MAMMA1001760 | 0.16 |
|    | MAMMA1001769 | F-MAMMA1001769 | 0.09 |
|    | MAMMA1001788 | F-MAMMA1001788 | 0.1  |
| 5  | MAMMA1001806 | F-MAMMA1001806 | 0.06 |
|    | MAMMA1001815 | F-MAMMA1001815 | 0.1  |
|    | MAMMA1001818 | F-MAMMA1001818 | 0.1  |
|    | MAMMA1001820 | F-MAMMA1001820 | 0.27 |
| 10 | MAMMA1001836 | F-MAMMA1001836 | 0.05 |
|    | MAMMA1001854 | F-MAMMA1001854 | 0.17 |
|    | MAMMA1001878 | F-MAMMA1001878 | 0.13 |
|    | MAMMA1001880 | F-MAMMA1001880 | 0.15 |
| 15 | MAMMA1001890 | F-MAMMA1001890 | 0.05 |
|    | MAMMA1001907 | F-MAMMA1001907 | 0.1  |
|    | MAMMA1001908 | F-MAMMA1001908 | 0.3  |
|    | MAMMA1001931 | F-MAMMA1001931 | 0.14 |
| 20 | MAMMA1001963 | F-MAMMA1001963 | 0.08 |
|    | MAMMA1001992 | F-MAMMA1001992 | 0.12 |
|    | MAMMA1002032 | F-MAMMA1002032 | 0.08 |
|    | MAMMA1002056 | F-MAMMA1002056 | 0.09 |
| 25 | MAMMA1002058 | F-MAMMA1002058 | 0.16 |
|    | MAMMA1002078 | F-MAMMA1002078 | 0.28 |
|    | MAMMA1002082 | F-MAMMA1002082 | 0.08 |
|    | MAMMA1002084 | F-MAMMA1002084 | 0.24 |
|    | MAMMA1002093 | F-MAMMA1002093 | 0.12 |
| 30 | MAMMA1002108 | F-MAMMA1002108 | 0.05 |
|    | MAMMA1002118 | F-MAMMA1002118 | 0.1  |
|    | MAMMA1002125 | F-MAMMA1002125 | 0.09 |
|    | MAMMA1002132 | F-MAMMA1002132 | 0.11 |
| 35 | MAMMA1002140 | F-MAMMA1002140 | 0.11 |
|    | MAMMA1002145 | F-MAMMA1002145 | 0.11 |
|    | MAMMA1002155 | F-MAMMA1002155 | 0.1  |
|    | MAMMA1002158 | F-MAMMA1002158 | 0.11 |
| 40 | MAMMA1002215 | F-MAMMA1002215 | 0.05 |
|    | MAMMA1002230 | F-MAMMA1002230 | 0.07 |
|    | MAMMA1002250 | F-MAMMA1002250 | 0.2  |
|    | MAMMA1002267 | F-MAMMA1002267 | 0.08 |
| 45 | MAMMA1002282 | F-MAMMA1002282 | 0.05 |
|    | MAMMA1002293 | F-MAMMA1002293 | 0.09 |
|    | MAMMA1002298 | F-MAMMA1002298 | 0.09 |
|    | MAMMA1002299 | F-MAMMA1002299 | 0.16 |
|    | MAMMA1002310 | F-MAMMA1002310 | 0.16 |
| 50 | MAMMA1002311 | F-MAMMA1002311 | 0.13 |
|    | MAMMA1002322 | F-MAMMA1002322 | 0.07 |
|    | MAMMA1002332 | F-MAMMA1002332 | 0.08 |
|    | MAMMA1002339 | F-MAMMA1002339 | 0.09 |
| 55 | MAMMA1002347 | F-MAMMA1002347 | 0.06 |

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|----|--------------|----------------|------|
|    | MAMMA1002352 | F-MAMMA1002352 | 0.08 |
|    | MAMMA1002359 | F-MAMMA1002359 | 0.13 |
| 5  | MAMMA1002360 | F-MAMMA1002360 | 0.17 |
|    | MAMMA1002361 | F-MAMMA1002361 | 0.13 |
|    | MAMMA1002392 | F-MAMMA1002392 | 0.16 |
|    | MAMMA1002411 | F-MAMMA1002411 | 0.28 |
| 10 | MAMMA1002417 | F-MAMMA1002417 | 0.19 |
|    | MAMMA1002428 | F-MAMMA1002428 | 0.07 |
|    | MAMMA1002446 | F-MAMMA1002446 | 0.17 |
|    | MAMMA1002475 | F-MAMMA1002475 | 0.17 |
|    | MAMMA1002480 | F-MAMMA1002480 | 0.07 |
| 15 | MAMMA1002494 | F-MAMMA1002494 | 0.17 |
|    | MAMMA1002498 | F-MAMMA1002498 | 0.28 |
|    | MAMMA1002545 | F-MAMMA1002545 | 0.12 |
|    | MAMMA1002556 | F-MAMMA1002556 | 0.06 |
| 20 | MAMMA1002566 | F-MAMMA1002566 | 0.13 |
|    | MAMMA1002571 | F-MAMMA1002571 | 0.29 |
|    | MAMMA1002573 | F-MAMMA1002573 | 0.29 |
|    | MAMMA1002597 | F-MAMMA1002597 | 0.1  |
| 25 | MAMMA1002603 | F-MAMMA1002603 | 0.1  |
|    | MAMMA1002612 | F-MAMMA1002612 | 0.14 |
|    | MAMMA1002618 | F-MAMMA1002618 | 0.11 |
|    | MAMMA1002622 | F-MAMMA1002622 | 0.24 |
| 30 | MAMMA1002623 | F-MAMMA1002623 | 0.1  |
|    | MAMMA1002625 | F-MAMMA1002625 | 0.11 |
|    | MAMMA1002629 | F-MAMMA1002629 | 0.05 |
|    | MAMMA1002636 | F-MAMMA1002636 | 0.12 |
|    | MAMMA1002646 | F-MAMMA1002646 | 0.05 |
| 35 | MAMMA1002662 | F-MAMMA1002662 | 0.09 |
|    | MAMMA1002698 | F-MAMMA1002698 | 0.08 |
|    | MAMMA1002701 | F-MAMMA1002701 | 0.11 |
|    | MAMMA1002708 | F-MAMMA1002708 | 0.09 |
| 40 | MAMMA1002721 | F-MAMMA1002721 | 0.06 |
|    | MAMMA1002727 | F-MAMMA1002727 | 0.15 |
|    | MAMMA1002728 | F-MAMMA1002728 | 0.12 |
|    | MAMMA1002744 | F-MAMMA1002744 | 0.08 |
| 45 | MAMMA1002746 | F-MAMMA1002746 | 0.09 |
|    | MAMMA1002748 | F-MAMMA1002748 | 0.1  |
|    | MAMMA1002754 | F-MAMMA1002754 | 0.07 |
|    | MAMMA1002758 | F-MAMMA1002758 | 0.29 |
| 50 | MAMMA1002764 | F-MAMMA1002764 | 0.2  |
|    | MAMMA1002765 | F-MAMMA1002765 | 0.29 |
|    | MAMMA1002780 | F-MAMMA1002780 | 0.12 |
|    | MAMMA1002820 | F-MAMMA1002820 | 0.3  |
|    | MAMMA1002830 | F-MAMMA1002830 | 0.16 |
| 55 | MAMMA1002833 | F-MAMMA1002833 | 0.14 |

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|----|--------------|----------------|------|
|    | MAMMA1002835 | F-MAMMA1002835 | 0.13 |
|    | MAMMA1002838 | F-MAMMA1002838 | 0.09 |
| 5  | MAMMA1002844 | F-MAMMA1002844 | 0.27 |
|    | MAMMA1002858 | F-MAMMA1002858 | 0.29 |
|    | MAMMA1002871 | F-MAMMA1002871 | 0.11 |
|    | MAMMA1002880 | F-MAMMA1002880 | 0.11 |
| 10 | MAMMA1002887 | F-MAMMA1002887 | 0.09 |
|    | MAMMA1002892 | F-MAMMA1002892 | 0.17 |
|    | MAMMA1002908 | F-MAMMA1002908 | 0.11 |
|    | MAMMA1002909 | F-MAMMA1002909 | 0.22 |
|    | MAMMA1002930 | F-MAMMA1002930 | 0.2  |
| 15 | MAMMA1002941 | F-MAMMA1002941 | 0.23 |
|    | MAMMA1002970 | F-MAMMA1002970 | 0.06 |
|    | MAMMA1002972 | F-MAMMA1002972 | 0.08 |
|    | MAMMA1002973 | F-MAMMA1002973 | 0.1  |
| 20 | MAMMA1002982 | F-MAMMA1002982 | 0.1  |
|    | MAMMA1003003 | F-MAMMA1003003 | 0.2  |
|    | MAMMA1003004 | F-MAMMA1003004 | 0.14 |
|    | MAMMA1003007 | F-MAMMA1003007 | 0.09 |
| 25 | MAMMA1003019 | F-MAMMA1003019 | 0.12 |
|    | MAMMA1003026 | F-MAMMA1003026 | 0.26 |
|    | MAMMA1003031 | F-MAMMA1003031 | 0.18 |
|    | MAMMA1003039 | F-MAMMA1003039 | 0.09 |
| 30 | MAMMA1003040 | F-MAMMA1003040 | 0.07 |
|    | MAMMA1003055 | F-MAMMA1003055 | 0.08 |
|    | MAMMA1003089 | F-MAMMA1003089 | 0.14 |
|    | MAMMA1003140 | F-MAMMA1003140 | 0.19 |
| 35 | NT2RM2000609 | F-NT2RM2000609 | 0.26 |
|    | NT2RM4000046 | F-NT2RM4000046 | 0.1  |
|    | NT2RM4000085 | F-NT2RM4000085 | 0.23 |
|    | NT2RM4000086 | F-NT2RM4000086 | 0.28 |
|    | NT2RM4000200 | F-NT2RM4000200 | 0.16 |
| 40 | NT2RM4000244 | F-NT2RM4000244 | 0.07 |
|    | NT2RM4000265 | F-NT2RM4000265 | 0.18 |
|    | NT2RM4000327 | F-NT2RM4000327 | 0.06 |
|    | NT2RM4000366 | F-NT2RM4000366 | 0.28 |
| 45 | NT2RM4000368 | F-NT2RM4000368 | 0.11 |
|    | NT2RM4000414 | F-NT2RM4000414 | 0.19 |
|    | NT2RM4000425 | F-NT2RM4000425 | 0.22 |
|    | NT2RM4000532 | F-NT2RM4000532 | 0.14 |
| 50 | NT2RM4000779 | F-NT2RM4000779 | 0.13 |
|    | NT2RM4000855 | F-NT2RM4000855 | 0.13 |
|    | NT2RM4000979 | F-NT2RM4000979 | 0.22 |
|    | NT2RM4001016 | F-NT2RM4001016 | 0.2  |
|    | NT2RM4001160 | F-NT2RM4001160 | 0.1  |
| 55 | NT2RM4001313 | F-NT2RM4001313 | 0.26 |

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|----|--------------|----------------|------|
|    | NT2RM4001414 | F-NT2RM4001414 | 0.23 |
|    | NT2RM4001437 | F-NT2RM4001437 | 0.12 |
| 5  | NT2RM4001519 | F-NT2RM4001519 | 0.07 |
|    | NT2RM4001557 | F-NT2RM4001557 | 0.3  |
|    | NT2RM4001605 | F-NT2RM4001605 | 0.22 |
|    | NT2RM4001754 | F-NT2RM4001754 | 0.26 |
| 10 | NT2RM4001776 | F-NT2RM4001776 | 0.18 |
|    | NT2RM4001810 | F-NT2RM4001810 | 0.22 |
|    | NT2RM4001856 | F-NT2RM4001856 | 0.11 |
|    | NT2RM4001858 | F-NT2RM4001858 | 0.14 |
| 15 | NT2RM4001930 | F-NT2RM4001930 | 0.3  |
|    | NT2RM4001953 | F-NT2RM4001953 | 0.09 |
|    | NT2RM4001984 | F-NT2RM4001984 | 0.09 |
|    | NT2RM4002067 | F-NT2RM4002067 | 0.08 |
|    | NT2RM4002278 | F-NT2RM4002278 | 0.07 |
| 20 | NT2RM4002281 | F-NT2RM4002281 | 0.07 |
|    | NT2RM4002287 | F-NT2RM4002287 | 0.27 |
|    | NT2RM4002383 | F-NT2RM4002383 | 0.08 |
|    | NT2RM4002390 | F-NT2RM4002390 | 0.18 |
| 25 | NT2RM4002438 | F-NT2RM4002438 | 0.23 |
|    | NT2RM4002479 | F-NT2RM4002479 | 0.27 |
|    | NT2RM4002499 | F-NT2RM4002499 | 0.08 |
|    | NT2RM4002504 | F-NT2RM4002504 | 0.08 |
| 30 | NT2RM4002532 | F-NT2RM4002532 | 0.15 |
|    | NT2RM4002567 | F-NT2RM4002567 | 0.28 |
|    | NT2RP2000027 | F-NT2RP2000027 | 0.07 |
|    | NT2RP2000076 | F-NT2RP2000076 | 0.16 |
|    | NT2RP2000077 | F-NT2RP2000077 | 0.2  |
| 35 | NT2RP2000098 | F-NT2RP2000098 | 0.23 |
|    | NT2RP2000108 | F-NT2RP2000108 | 0.07 |
|    | NT2RP2000183 | F-NT2RP2000183 | 0.12 |
|    | NT2RP2000257 | F-NT2RP2000257 | 0.27 |
| 40 | NT2RP2000258 | F-NT2RP2000258 | 0.19 |
|    | NT2RP2000270 | F-NT2RP2000270 | 0.06 |
|    | NT2RP2000289 | F-NT2RP2000289 | 0.06 |
|    | NT2RP2000327 | F-NT2RP2000327 | 0.08 |
| 45 | NT2RP2000337 | F-NT2RP2000337 | 0.14 |
|    | NT2RP2000420 | F-NT2RP2000420 | 0.2  |
|    | NT2RP2000459 | F-NT2RP2000459 | 0.12 |
|    | NT2RP2000498 | F-NT2RP2000498 | 0.05 |
| 50 | NT2RP2000523 | F-NT2RP2000523 | 0.14 |
|    | NT2RP2000603 | F-NT2RP2000603 | 0.22 |
|    | NT2RP2000644 | F-NT2RP2000644 | 0.05 |
|    | NT2RP2000678 | F-NT2RP2000678 | 0.11 |
| 55 | NT2RP2000715 | F-NT2RP2000715 | 0.21 |
|    | NT2RP2000731 | F-NT2RP2000731 | 0.09 |

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|----|--------------|----------------|-------|
|    | NT2RP2000758 | F-NT2RP2000758 | 0. 2  |
|    | NT2RP2000842 | F-NT2RP2000842 | 0. 14 |
| 5  | NT2RP2000970 | F-NT2RP2000970 | 0. 12 |
|    | NT2RP2000987 | F-NT2RP2000987 | 0. 07 |
|    | NT2RP2001149 | F-NT2RP2001149 | 0. 08 |
|    | NT2RP2001196 | F-NT2RP2001196 | 0. 27 |
| 10 | NT2RP2001226 | F-NT2RP2001226 | 0. 18 |
|    | NT2RP2001277 | F-NT2RP2001277 | 0. 09 |
|    | NT2RP2001290 | F-NT2RP2001290 | 0. 1  |
|    | NT2RP2001295 | F-NT2RP2001295 | 0. 13 |
| 15 | NT2RP2001312 | F-NT2RP2001312 | 0. 15 |
|    | NT2RP2001347 | F-NT2RP2001347 | 0. 11 |
|    | NT2RP2001423 | F-NT2RP2001423 | 0. 06 |
|    | NT2RP2001445 | F-NT2RP2001445 | 0. 11 |
|    | NT2RP2001449 | F-NT2RP2001449 | 0. 15 |
| 20 | NT2RP2001467 | F-NT2RP2001467 | 0. 21 |
|    | NT2RP2001506 | F-NT2RP2001506 | 0. 06 |
|    | NT2RP2001526 | F-NT2RP2001526 | 0. 1  |
|    | NT2RP2001569 | F-NT2RP2001569 | 0. 09 |
| 25 | NT2RP2001663 | F-NT2RP2001663 | 0. 08 |
|    | NT2RP2001677 | F-NT2RP2001677 | 0. 14 |
|    | NT2RP2001678 | F-NT2RP2001678 | 0. 17 |
|    | NT2RP2001699 | F-NT2RP2001699 | 0. 05 |
| 30 | NT2RP2001720 | F-NT2RP2001720 | 0. 08 |
|    | NT2RP2001740 | F-NT2RP2001740 | 0. 23 |
|    | NT2RP2001762 | F-NT2RP2001762 | 0. 11 |
|    | NT2RP2001813 | F-NT2RP2001813 | 0. 19 |
|    | NT2RP2001869 | F-NT2RP2001869 | 0. 22 |
| 35 | NT2RP2001926 | F-NT2RP2001926 | 0. 07 |
|    | NT2RP2001936 | F-NT2RP2001936 | 0. 08 |
|    | NT2RP2001943 | F-NT2RP2001943 | 0. 27 |
|    | NT2RP2002032 | F-NT2RP2002032 | 0. 23 |
| 40 | NT2RP2002041 | F-NT2RP2002041 | 0. 1  |
|    | NT2RP2002047 | F-NT2RP2002047 | 0. 12 |
|    | NT2RP2002066 | F-NT2RP2002066 | 0. 25 |
|    | NT2RP2002070 | F-NT2RP2002070 | 0. 07 |
| 45 | NT2RP2002105 | F-NT2RP2002105 | 0. 13 |
|    | NT2RP2002124 | F-NT2RP2002124 | 0. 13 |
|    | NT2RP2002137 | F-NT2RP2002137 | 0. 07 |
|    | NT2RP2002172 | F-NT2RP2002172 | 0. 21 |
|    | NT2RP2002192 | F-NT2RP2002192 | 0. 05 |
| 50 | NT2RP2002219 | F-NT2RP2002219 | 0. 13 |
|    | NT2RP2002256 | F-NT2RP2002256 | 0. 17 |
|    | NT2RP2002259 | F-NT2RP2002259 | 0. 28 |
|    | NT2RP2002316 | F-NT2RP2002316 | 0. 15 |
| 55 | NT2RP2002394 | F-NT2RP2002394 | 0. 16 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP2002439 | F-NT2RP2002439 | 0.07 |
|    | NT2RP2002457 | F-NT2RP2002457 | 0.11 |
|    | NT2RP2002475 | F-NT2RP2002475 | 0.14 |
| 5  | NT2RP2002504 | F-NT2RP2002504 | 0.21 |
|    | NT2RP2002546 | F-NT2RP2002546 | 0.17 |
|    | NT2RP2002591 | F-NT2RP2002591 | 0.15 |
|    | NT2RP2002606 | F-NT2RP2002606 | 0.11 |
| 10 | NT2RP2002643 | F-NT2RP2002643 | 0.26 |
|    | NT2RP2002727 | F-NT2RP2002727 | 0.26 |
|    | NT2RP2002736 | F-NT2RP2002736 | 0.12 |
|    | NT2RP2002740 | F-NT2RP2002740 | 0.16 |
| 15 | NT2RP2002741 | F-NT2RP2002741 | 0.11 |
|    | NT2RP2002750 | F-NT2RP2002750 | 0.14 |
|    | NT2RP2002752 | F-NT2RP2002752 | 0.1  |
|    | NT2RP2002753 | F-NT2RP2002753 | 0.09 |
| 20 | NT2RP2002778 | F-NT2RP2002778 | 0.13 |
|    | NT2RP2002839 | F-NT2RP2002839 |      |
|    | NT2RP2002857 | F-NT2RP2002857 | 0.21 |
|    | NT2RP2002987 | F-NT2RP2002987 | 0.08 |
| 25 | NT2RP2003000 | F-NT2RP2003000 | 0.24 |
|    | NT2RP2003073 | F-NT2RP2003073 | 0.08 |
|    | NT2RP2003129 | F-NT2RP2003129 | 0.07 |
|    | NT2RP2003161 | F-NT2RP2003161 | 0.05 |
|    | NT2RP2003164 | F-NT2RP2003164 | 0.09 |
| 30 | NT2RP2003206 | F-NT2RP2003206 | 0.22 |
|    | NT2RP2003230 | F-NT2RP2003230 | 0.08 |
|    | NT2RP2003237 | F-NT2RP2003237 | 0.24 |
|    | NT2RP2003339 | F-NT2RP2003339 | 0.1  |
| 35 | NT2RP2003394 | F-NT2RP2003394 | 0.07 |
|    | NT2RP2003456 | F-NT2RP2003456 | 0.08 |
|    | NT2RP2003499 | F-NT2RP2003499 | 0.08 |
|    | NT2RP2003517 | F-NT2RP2003517 | 0.29 |
| 40 | NT2RP2003522 | F-NT2RP2003522 | 0.22 |
|    | NT2RP2003559 | F-NT2RP2003559 | 0.12 |
|    | NT2RP2003668 | F-NT2RP2003668 | 0.08 |
|    | NT2RP2003704 | F-NT2RP2003704 | 0.09 |
| 45 | NT2RP2003706 | F-NT2RP2003706 | 0.28 |
|    | NT2RP2003727 | F-NT2RP2003727 | 0.17 |
|    | NT2RP2003770 | F-NT2RP2003770 | 0.09 |
|    | NT2RP2003859 | F-NT2RP2003859 | 0.18 |
|    | NT2RP2003871 | F-NT2RP2003871 | 0.23 |
| 50 | NT2RP2003885 | F-NT2RP2003885 | 0.24 |
|    | NT2RP2003912 | F-NT2RP2003912 | 0.26 |
|    | NT2RP2003968 | F-NT2RP2003968 | 0.2  |
|    | NT2RP2003988 | F-NT2RP2003988 | 0.09 |
| 55 | NT2RP2004014 | F-NT2RP2004014 | 0.07 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP2004142 | F-NT2RP2004142 | 0.14 |
|    | NT2RP2004170 | F-NT2RP2004170 | 0.09 |
| 5  | NT2RP2004172 | F-NT2RP2004172 | 0.15 |
|    | NT2RP2004207 | F-NT2RP2004207 | 0.11 |
|    | NT2RP2004232 | F-NT2RP2004232 | 0.17 |
|    | NT2RP2004270 | F-NT2RP2004270 | 0.29 |
| 10 | NT2RP2004300 | F-NT2RP2004300 | 0.11 |
|    | NT2RP2004321 | F-NT2RP2004321 | 0.13 |
|    | NT2RP2004339 | F-NT2RP2004339 | 0.14 |
|    | NT2RP2004347 | F-NT2RP2004347 | 0.14 |
| 15 | NT2RP2004396 | F-NT2RP2004396 | 0.29 |
|    | NT2RP2004400 | F-NT2RP2004400 | 0.06 |
|    | NT2RP2004412 | F-NT2RP2004412 | 0.24 |
|    | NT2RP2004425 | F-NT2RP2004425 | 0.13 |
|    | NT2RP2004490 | F-NT2RP2004490 | 0.13 |
| 20 | NT2RP2004512 | F-NT2RP2004512 | 0.1  |
|    | NT2RP2004523 | F-NT2RP2004523 | 0.15 |
|    | NT2RP2004580 | F-NT2RP2004580 | 0.12 |
|    | NT2RP2004587 | F-NT2RP2004587 | 0.08 |
| 25 | NT2RP2004675 | F-NT2RP2004675 | 0.14 |
|    | NT2RP2004681 | F-NT2RP2004681 | 0.17 |
|    | NT2RP2004709 | F-NT2RP2004709 | 0.08 |
|    | NT2RP2004736 | F-NT2RP2004736 | 0.13 |
| 30 | NT2RP2004767 | F-NT2RP2004767 | 0.21 |
|    | NT2RP2004775 | F-NT2RP2004775 | 0.17 |
|    | NT2RP2004961 | F-NT2RP2004961 | 0.21 |
|    | NT2RP2004962 | F-NT2RP2004962 | 0.24 |
| 35 | NT2RP2004967 | F-NT2RP2004967 | 0.05 |
|    | NT2RP2004982 | F-NT2RP2004982 | 0.11 |
|    | NT2RP2005020 | F-NT2RP2005020 | 0.16 |
|    | NT2RP2005031 | F-NT2RP2005031 | 0.07 |
|    | NT2RP2005108 | F-NT2RP2005108 | 0.11 |
| 40 | NT2RP2005254 | F-NT2RP2005254 | 0.16 |
|    | NT2RP2005289 | F-NT2RP2005289 | 0.22 |
|    | NT2RP2005293 | F-NT2RP2005293 | 0.08 |
|    | NT2RP2005325 | F-NT2RP2005325 |      |
| 45 | NT2RP2005336 | F-NT2RP2005336 | 0.27 |
|    | NT2RP2005344 | F-NT2RP2005344 | 0.24 |
|    | NT2RP2005354 | F-NT2RP2005354 | 0.08 |
|    | NT2RP2005360 | F-NT2RP2005360 | 0.12 |
| 50 | NT2RP2005407 | F-NT2RP2005407 | 0.28 |
|    | NT2RP2005476 | F-NT2RP2005476 | 0.14 |
|    | NT2RP2005491 | F-NT2RP2005491 | 0.18 |
|    | NT2RP2005501 | F-NT2RP2005501 | 0.1  |
|    | NT2RP2005531 | F-NT2RP2005531 | 0.29 |
| 55 | NT2RP2005581 | F-NT2RP2005581 | 0.07 |



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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP2005645 | F-NT2RP2005645 | 0. 13 |
|    | NT2RP2005651 | F-NT2RP2005651 | 0. 06 |
|    | NT2RP2005694 | F-NT2RP2005694 | 0. 3  |
| 5  | NT2RP2005701 | F-NT2RP2005701 | 0. 11 |
|    | NT2RP2005719 | F-NT2RP2005719 | 0. 06 |
|    | NT2RP2005726 | F-NT2RP2005726 | 0. 29 |
|    | NT2RP2005741 | F-NT2RP2005741 | 0. 22 |
| 10 | NT2RP2005753 | F-NT2RP2005753 | 0. 16 |
|    | NT2RP2005815 | F-NT2RP2005815 | 0. 18 |
|    | NT2RP2005841 | F-NT2RP2005841 | 0. 05 |
|    | NT2RP2005857 | F-NT2RP2005857 | 0. 28 |
| 15 | NT2RP2005908 | F-NT2RP2005908 | 0. 05 |
|    | NT2RP2005942 | F-NT2RP2005942 | 0. 26 |
|    | NT2RP2005980 | F-NT2RP2005980 | 0. 1  |
|    | NT2RP2006098 | F-NT2RP2006098 | 0. 06 |
| 20 | NT2RP2006103 | F-NT2RP2006103 | 0. 07 |
|    | NT2RP2006166 | F-NT2RP2006166 | 0. 27 |
|    | NT2RP2006184 | F-NT2RP2006184 | 0. 23 |
|    | NT2RP2006258 | F-NT2RP2006258 | 0. 12 |
| 25 | NT2RP2006261 | F-NT2RP2006261 | 0. 16 |
|    | NT2RP2006320 | F-NT2RP2006320 | 0. 16 |
|    | NT2RP2006321 | F-NT2RP2006321 | 0. 15 |
|    | NT2RP2006323 | F-NT2RP2006323 |       |
|    | NT2RP2006393 | F-NT2RP2006393 | 0. 07 |
| 30 | NT2RP2006454 | F-NT2RP2006454 | 0. 11 |
|    | NT2RP2006467 | F-NT2RP2006467 | 0. 24 |
|    | NT2RP2006534 | F-NT2RP2006534 | 0. 14 |
|    | NT2RP2006554 | F-NT2RP2006554 | 0. 16 |
| 35 | NT2RP2006598 | F-NT2RP2006598 | 0. 08 |
|    | NT2RP3000055 | F-NT2RP3000055 | 0. 14 |
|    | NT2RP3000109 | F-NT2RP3000109 | 0. 18 |
|    | NT2RP3000186 | F-NT2RP3000186 | 0. 06 |
| 40 | NT2RP3000233 | F-NT2RP3000233 | 0. 29 |
|    | NT2RP3000235 | F-NT2RP3000235 | 0. 09 |
|    | NT2RP3000247 | F-NT2RP3000247 | 0. 19 |
|    | NT2RP3000341 | F-NT2RP3000341 | 0. 16 |
| 45 | NT2RP3000418 | F-NT2RP3000418 | 0. 15 |
|    | NT2RP3000433 | F-NT2RP3000433 | 0. 11 |
|    | NT2RP3000441 | F-NT2RP3000441 | 0. 2  |
|    | NT2RP3000449 | F-NT2RP3000449 | 0. 16 |
|    | NT2RP3000451 | F-NT2RP3000451 | 0. 14 |
| 50 | NT2RP3000512 | F-NT2RP3000512 | 0. 08 |
|    | NT2RP3000542 | F-NT2RP3000542 | 0. 1  |
|    | NT2RP3000561 | F-NT2RP3000561 | 0. 1  |
|    | NT2RP3000578 | F-NT2RP3000578 | 0. 3  |
| 55 | NT2RP3000582 | F-NT2RP3000582 | 0. 08 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP3000584 | F-NT2RP3000584 | 0.07 |
|    | NT2RP3000622 | F-NT2RP3000622 | 0.17 |
| 5  | NT2RP3000628 | F-NT2RP3000628 | 0.08 |
|    | NT2RP3000685 | F-NT2RP3000685 | 0.17 |
|    | NT2RP3000736 | F-NT2RP3000736 | 0.26 |
|    | NT2RP3000742 | F-NT2RP3000742 | 0.22 |
| 10 | NT2RP3000815 | F-NT2RP3000815 | 0.06 |
|    | NT2RP3000865 | F-NT2RP3000865 | 0.13 |
|    | NT2RP3000875 | F-NT2RP3000875 | 0.16 |
|    | NT2RP3000904 | F-NT2RP3000904 | 0.13 |
|    | NT2RP3001007 | F-NT2RP3001007 | 0.1  |
| 15 | NT2RP3001115 | F-NT2RP3001115 | 0.1  |
|    | NT2RP3001232 | F-NT2RP3001232 | 0.09 |
|    | NT2RP3001245 | F-NT2RP3001245 | 0.09 |
|    | NT2RP3001281 | F-NT2RP3001281 | 0.29 |
| 20 | NT2RP3001318 | F-NT2RP3001318 | 0.12 |
|    | NT2RP3001339 | F-NT2RP3001339 | 0.27 |
|    | NT2RP3001340 | F-NT2RP3001340 | 0.11 |
|    | NT2RP3001374 | F-NT2RP3001374 | 0.21 |
| 25 | NT2RP3001383 | F-NT2RP3001383 | 0.09 |
|    | NT2RP3001432 | F-NT2RP3001432 | 0.29 |
|    | NT2RP3001459 | F-NT2RP3001459 | 0.16 |
|    | NT2RP3001527 | F-NT2RP3001527 | 0.3  |
| 30 | NT2RP3001580 | F-NT2RP3001580 | 0.23 |
|    | NT2RP3001589 | F-NT2RP3001589 | 0.12 |
|    | NT2RP3001607 | F-NT2RP3001607 | 0.12 |
|    | NT2RP3001634 | F-NT2RP3001634 | 0.15 |
|    | NT2RP3001752 | F-NT2RP3001752 | 0.09 |
| 35 | NT2RP3001782 | F-NT2RP3001782 | 0.21 |
|    | NT2RP3001898 | F-NT2RP3001898 | 0.07 |
|    | NT2RP3001926 | F-NT2RP3001926 | 0.05 |
|    | NT2RP3001989 | F-NT2RP3001989 | 0.14 |
| 40 | NT2RP3002002 | F-NT2RP3002002 | 0.18 |
|    | NT2RP3002004 | F-NT2RP3002004 | 0.11 |
|    | NT2RP3002056 | F-NT2RP3002056 | 0.16 |
|    | NT2RP3002057 | F-NT2RP3002057 | 0.08 |
| 45 | NT2RP3002166 | F-NT2RP3002166 | 0.15 |
|    | NT2RP3002173 | F-NT2RP3002173 | 0.28 |
|    | NT2RP3002352 | F-NT2RP3002352 | 0.19 |
|    | NT2RP3002687 | F-NT2RP3002687 | 0.12 |
|    | NT2RP3002713 | F-NT2RP3002713 | 0.1  |
| 50 | NT2RP3002770 | F-NT2RP3002770 | 0.23 |
|    | NT2RP3002799 | F-NT2RP3002799 | 0.17 |
|    | NT2RP3002810 | F-NT2RP3002810 | 0.2  |
|    | NT2RP3002955 | F-NT2RP3002955 | 0.17 |
| 55 | NT2RP3002978 | F-NT2RP3002978 | 0.06 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | NT2RP3003032 | F-NT2RP3003032 | 0. 1  |
|    | NT2RP3003059 | F-NT2RP3003059 | 0. 11 |
| 5  | NT2RP3003121 | F-NT2RP3003121 | 0. 23 |
|    | NT2RP3003133 | F-NT2RP3003133 | 0. 21 |
|    | NT2RP3003138 | F-NT2RP3003138 | 0. 29 |
|    | NT2RP3003264 | F-NT2RP3003264 | 0. 15 |
| 10 | NT2RP3003346 | F-NT2RP3003346 | 0. 16 |
|    | NT2RP3003384 | F-NT2RP3003384 | 0. 12 |
|    | NT2RP3003403 | F-NT2RP3003403 | 0. 26 |
|    | NT2RP3003433 | F-NT2RP3003433 | 0. 22 |
|    | NT2RP3003464 | F-NT2RP3003464 | 0. 28 |
| 15 | NT2RP3003500 | F-NT2RP3003500 | 0. 2  |
|    | NT2RP3003572 | F-NT2RP3003572 | 0. 29 |
|    | NT2RP3003576 | F-NT2RP3003576 | 0. 16 |
|    | NT2RP3003625 | F-NT2RP3003625 | 0. 29 |
| 20 | NT2RP3003665 | F-NT2RP3003665 | 0. 15 |
|    | NT2RP3003746 | F-NT2RP3003746 | 0. 07 |
|    | NT2RP3003799 | F-NT2RP3003799 | 0. 13 |
|    | NT2RP3003800 | F-NT2RP3003800 | 0. 28 |
| 25 | NT2RP3003819 | F-NT2RP3003819 | 0. 19 |
|    | NT2RP3003828 | F-NT2RP3003828 | 0. 12 |
|    | NT2RP3003842 | F-NT2RP3003842 | 0. 11 |
|    | NT2RP3003989 | F-NT2RP3003989 | 0. 1  |
| 30 | NT2RP3004016 | F-NT2RP3004016 | 0. 09 |
|    | NT2RP3004070 | F-NT2RP3004070 | 0. 11 |
|    | NT2RP3004095 | F-NT2RP3004095 | 0. 1  |
|    | NT2RP3004110 | F-NT2RP3004110 | 0. 07 |
| 35 | NT2RP3004145 | F-NT2RP3004145 | 0. 15 |
|    | NT2RP3004148 | F-NT2RP3004148 | 0. 14 |
|    | NT2RP3004215 | F-NT2RP3004215 | 0. 16 |
|    | NT2RP3004334 | F-NT2RP3004334 | 0. 1  |
|    | NT2RP3004349 | F-NT2RP3004349 | 0. 09 |
| 40 | NT2RP3004399 | F-NT2RP3004399 | 0. 16 |
|    | NT2RP3004470 | F-NT2RP3004470 | 0. 23 |
|    | NT2RP3004475 | F-NT2RP3004475 | 0. 26 |
|    | NT2RP3004503 | F-NT2RP3004503 | 0. 12 |
| 45 | NT2RP3004527 | F-NT2RP3004527 | 0. 06 |
|    | NT2RP4000023 | F-NT2RP4000023 | 0. 13 |
|    | NT2RP4000035 | F-NT2RP4000035 | 0. 17 |
|    | NT2RP4000049 | F-NT2RP4000049 | 0. 1  |
|    | NT2RP4000078 | F-NT2RP4000078 | 0. 28 |
| 50 | NT2RP4000102 | F-NT2RP4000102 | 0. 15 |
|    | NT2RP4000167 | F-NT2RP4000167 | 0. 19 |
|    | NT2RP4000214 | F-NT2RP4000214 | 0. 12 |
|    | NT2RP4000218 | F-NT2RP4000218 | 0. 17 |
| 55 | NT2RP4000321 | F-NT2RP4000321 | 0. 18 |

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|----|--------------|----------------|-------|
|    | NT2RP4000424 | F-NT2RP4000424 | 0. 22 |
|    | NT2RP4000515 | F-NT2RP4000515 | 0. 13 |
| 5  | NT2RP4000517 | F-NT2RP4000517 | 0. 1  |
|    | NT2RP4000519 | F-NT2RP4000519 | 0. 26 |
|    | NT2RP4000915 | F-NT2RP4000915 | 0. 19 |
|    | NT2RP4000996 | F-NT2RP4000996 | 0. 05 |
| 10 | NT2RP4001407 | F-NT2RP4001407 | 0. 2  |
|    | NT2RP4001889 | F-NT2RP4001889 | 0. 09 |
|    | NT2RP4002075 | F-NT2RP4002075 | 0. 19 |
|    | NT2RP4002905 | F-NT2RP4002905 | 0. 15 |
| 15 | OVARC1000017 | F-OVARC1000017 | 0. 12 |
|    | OVARC1000058 | F-OVARC1000058 | 0. 2  |
|    | OVARC1000068 | F-OVARC1000068 | 0. 14 |
|    | OVARC1000071 | F-OVARC1000071 | 0. 15 |
|    | OVARC1000085 | F-OVARC1000085 | 0. 16 |
| 20 | OVARC1000092 | F-OVARC1000092 | 0. 26 |
|    | OVARC1000133 | F-OVARC1000133 | 0. 14 |
|    | OVARC1000145 | F-OVARC1000145 | 0. 15 |
|    | OVARC1000191 | F-OVARC1000191 | 0. 07 |
| 25 | OVARC1000198 | F-OVARC1000198 | 0. 23 |
|    | OVARC1000240 | F-OVARC1000240 | 0. 11 |
|    | OVARC1000302 | F-OVARC1000302 | 0. 08 |
|    | OVARC1000414 | F-OVARC1000414 | 0. 12 |
| 30 | OVARC1000427 | F-OVARC1000427 | 0. 1  |
|    | OVARC1000431 | F-OVARC1000431 | 0. 06 |
|    | OVARC1000486 | F-OVARC1000486 | 0. 08 |
|    | OVARC1000496 | F-OVARC1000496 | 0. 13 |
| 35 | OVARC1000526 | F-OVARC1000526 | 0. 09 |
|    | OVARC1000533 | F-OVARC1000533 | 0. 11 |
|    | OVARC1000543 | F-OVARC1000543 | 0. 2  |
|    | OVARC1000573 | F-OVARC1000573 | 0. 09 |
|    | OVARC1000578 | F-OVARC1000578 | 0. 13 |
| 40 | OVARC1000678 | F-OVARC1000678 | 0. 17 |
|    | OVARC1000679 | F-OVARC1000679 | 0. 23 |
|    | OVARC1000700 | F-OVARC1000700 | 0. 28 |
|    | OVARC1000769 | F-OVARC1000769 | 0. 05 |
| 45 | OVARC1000802 | F-OVARC1000802 | 0. 06 |
|    | OVARC1000891 | F-OVARC1000891 | 0. 08 |
|    | OVARC1000897 | F-OVARC1000897 | 0. 11 |
|    | OVARC1000936 | F-OVARC1000936 | 0. 14 |
| 50 | OVARC1000937 | F-OVARC1000937 | 0. 29 |
|    | OVARC1000948 | F-OVARC1000948 | 0. 14 |
|    | OVARC1000960 | F-OVARC1000960 | 0. 07 |
|    | OVARC1000971 | F-OVARC1000971 | 0. 11 |
|    | OVARC1001000 | F-OVARC1001000 | 0. 06 |
| 55 | OVARC1001011 | F-OVARC1001011 | 0. 15 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | OVARC1001051 | F-OVARC1001051 | 0.16 |
|    | OVARC1001062 | F-OVARC1001062 | 0.09 |
| 5  | OVARC1001072 | F-OVARC1001072 | 0.11 |
|    | OVARC1001085 | F-OVARC1001085 | 0.12 |
|    | OVARC1001117 | F-OVARC1001117 | 0.21 |
|    | OVARC1001118 | F-OVARC1001118 | 0.08 |
|    | OVARC1001129 | F-OVARC1001129 | 0.28 |
| 10 | OVARC1001169 | F-OVARC1001169 | 0.12 |
|    | OVARC1001240 | F-OVARC1001240 | 0.09 |
|    | OVARC1001261 | F-OVARC1001261 | 0.1  |
|    | OVARC1001268 | F-OVARC1001268 | 0.05 |
| 15 | OVARC1001282 | F-OVARC1001282 | 0.09 |
|    | OVARC1001330 | F-OVARC1001330 | 0.08 |
|    | OVARC1001339 | F-OVARC1001339 | 0.15 |
|    | OVARC1001342 | F-OVARC1001342 | 0.16 |
| 20 | OVARC1001357 | F-OVARC1001357 | 0.06 |
|    | OVARC1001442 | F-OVARC1001442 | 0.15 |
|    | OVARC1001480 | F-OVARC1001480 | 0.23 |
|    | OVARC1001542 | F-OVARC1001542 | 0.13 |
| 25 | OVARC1001547 | F-OVARC1001547 | 0.12 |
|    | OVARC1001600 | F-OVARC1001600 | 0.13 |
|    | OVARC1001615 | F-OVARC1001615 | 0.11 |
|    | OVARC1001668 | F-OVARC1001668 | 0.05 |
|    | OVARC1001726 | F-OVARC1001726 | 0.18 |
| 30 | OVARC1001745 | F-OVARC1001745 | 0.22 |
|    | OVARC1001795 | F-OVARC1001795 | 0.28 |
|    | OVARC1001805 | F-OVARC1001805 | 0.16 |
|    | OVARC1001812 | F-OVARC1001812 | 0.05 |
| 35 | OVARC1001813 | F-OVARC1001813 | 0.11 |
|    | OVARC1001846 | F-OVARC1001846 | 0.13 |
|    | OVARC1001883 | F-OVARC1001883 | 0.05 |
|    | OVARC1001900 | F-OVARC1001900 | 0.28 |
| 40 | OVARC1001901 | F-OVARC1001901 | 0.09 |
|    | OVARC1001911 | F-OVARC1001911 | 0.06 |
|    | OVARC1001928 | F-OVARC1001928 | 0.1  |
|    | OVARC1001989 | F-OVARC1001989 | 0.07 |
| 45 | OVARC1002044 | F-OVARC1002044 | 0.06 |
|    | OVARC1002066 | F-OVARC1002066 | 0.08 |
|    | OVARC1002143 | F-OVARC1002143 | 0.27 |
|    | PLACE1000031 | F-PLACE1000031 | 0.09 |
|    | PLACE1000040 | F-PLACE1000040 | 0.15 |
| 50 | PLACE1000078 | F-PLACE1000078 | 0.12 |
|    | PLACE1000094 | F-PLACE1000094 | 0.16 |
|    | PLACE1000214 | F-PLACE1000214 | 0.15 |
|    | PLACE1000292 | F-PLACE1000292 | 0.05 |
| 55 | PLACE1000332 | F-PLACE1000332 | 0.1  |

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|----|--------------|----------------|------|
|    | PLACE1000421 | F-PLACE1000421 | 0.14 |
|    | PLACE1000424 | F-PLACE1000424 | 0.08 |
| 5  | PLACE1000481 | F-PLACE1000481 | 0.12 |
|    | PLACE1000540 | F-PLACE1000540 | 0.11 |
|    | PLACE1000583 | F-PLACE1000583 | 0.1  |
|    | PLACE1000599 | F-PLACE1000599 | 0.22 |
| 10 | PLACE1000749 | F-PLACE1000749 | 0.2  |
|    | PLACE1000841 | F-PLACE1000841 | 0.09 |
|    | PLACE1000931 | F-PLACE1000931 | 0.22 |
|    | PLACE1000979 | F-PLACE1000979 | 0.16 |
|    | PLACE1001007 | F-PLACE1001007 | 0.19 |
| 15 | PLACE1001015 | F-PLACE1001015 | 0.25 |
|    | PLACE1001076 | F-PLACE1001076 | 0.08 |
|    | PLACE1001088 | F-PLACE1001088 | 0.18 |
|    | PLACE1001118 | F-PLACE1001118 | 0.24 |
| 20 | PLACE1001136 | F-PLACE1001136 | 0.12 |
|    | PLACE1001272 | F-PLACE1001272 | 0.07 |
|    | PLACE1001279 | F-PLACE1001279 | 0.08 |
|    | PLACE1001323 | F-PLACE1001323 | 0.18 |
| 25 | PLACE1001377 | F-PLACE1001377 | 0.16 |
|    | PLACE1001384 | F-PLACE1001384 | 0.06 |
|    | PLACE1001395 | F-PLACE1001395 | 0.08 |
|    | PLACE1001414 | F-PLACE1001414 | 0.11 |
|    | PLACE1001440 | F-PLACE1001440 | 0.14 |
| 30 | PLACE1001468 | F-PLACE1001468 | 0.05 |
|    | PLACE1001502 | F-PLACE1001502 | 0.06 |
|    | PLACE1001517 | F-PLACE1001517 | 0.09 |
|    | PLACE1001534 | F-PLACE1001534 | 0.08 |
| 35 | PLACE1001603 | F-PLACE1001603 | 0.08 |
|    | PLACE1001611 | F-PLACE1001611 | 0.25 |
|    | PLACE1001640 | F-PLACE1001640 | 0.09 |
|    | PLACE1001672 | F-PLACE1001672 | 0.11 |
| 40 | PLACE1001691 | F-PLACE1001691 | 0.11 |
|    | PLACE1001705 | F-PLACE1001705 | 0.1  |
|    | PLACE1001716 | F-PLACE1001716 | 0.15 |
|    | PLACE1001720 | F-PLACE1001720 | 0.18 |
| 45 | PLACE1001745 | F-PLACE1001745 | 0.09 |
|    | PLACE1001746 | F-PLACE1001746 | 0.12 |
|    | PLACE1001748 | F-PLACE1001748 | 0.08 |
|    | PLACE1001756 | F-PLACE1001756 | 0.17 |
|    | PLACE1001799 | F-PLACE1001799 | 0.14 |
| 50 | PLACE1001821 | F-PLACE1001821 | 0.09 |
|    | PLACE1001845 | F-PLACE1001845 | 0.08 |
|    | PLACE1001897 | F-PLACE1001897 | 0.15 |
|    | PLACE1002052 | F-PLACE1002052 | 0.13 |
| 55 | PLACE1002066 | F-PLACE1002066 | 0.07 |

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|----|--------------|----------------|------|
|    | PLACE1002150 | F-PLACE1002150 | 0.08 |
|    | PLACE1002157 | F-PLACE1002157 | 0.15 |
| 5  | PLACE1002205 | F-PLACE1002205 | 0.13 |
|    | PLACE1002227 | F-PLACE1002227 | 0.12 |
|    | PLACE1002256 | F-PLACE1002256 | 0.11 |
|    | PLACE1002259 | F-PLACE1002259 | 0.09 |
| 10 | PLACE1002319 | F-PLACE1002319 | 0.27 |
|    | PLACE1002399 | F-PLACE1002399 | 0.08 |
|    | PLACE1002477 | F-PLACE1002477 | 0.17 |
|    | PLACE1002493 | F-PLACE1002493 | 0.09 |
| 15 | PLACE1002500 | F-PLACE1002500 | 0.25 |
|    | PLACE1002514 | F-PLACE1002514 | 0.06 |
|    | PLACE1002537 | F-PLACE1002537 | 0.17 |
|    | PLACE1002578 | F-PLACE1002578 | 0.11 |
|    | PLACE1002583 | F-PLACE1002583 | 0.25 |
| 20 | PLACE1002591 | F-PLACE1002591 | 0.28 |
|    | PLACE1002598 | F-PLACE1002598 | 0.29 |
|    | PLACE1002604 | F-PLACE1002604 | 0.15 |
|    | PLACE1002768 | F-PLACE1002768 | 0.11 |
| 25 | PLACE1002772 | F-PLACE1002772 | 0.15 |
|    | PLACE1002782 | F-PLACE1002782 | 0.16 |
|    | PLACE1002853 | F-PLACE1002853 | 0.16 |
|    | PLACE1002881 | F-PLACE1002881 | 0.09 |
| 30 | PLACE1002962 | F-PLACE1002962 | 0.13 |
|    | PLACE1002968 | F-PLACE1002968 | 0.23 |
|    | PLACE1003153 | F-PLACE1003153 | 0.07 |
|    | PLACE1003205 | F-PLACE1003205 | 0.2  |
|    | PLACE1003238 | F-PLACE1003238 | 0.22 |
| 35 | PLACE1003258 | F-PLACE1003258 | 0.17 |
|    | PLACE1003343 | F-PLACE1003343 | 0.07 |
|    | PLACE1003361 | F-PLACE1003361 | 0.19 |
|    | PLACE1003373 | F-PLACE1003373 | 0.08 |
| 40 | PLACE1003375 | F-PLACE1003375 | 0.26 |
|    | PLACE1003401 | F-PLACE1003401 | 0.11 |
|    | PLACE1003420 | F-PLACE1003420 | 0.22 |
|    | PLACE1003478 | F-PLACE1003478 | 0.14 |
| 45 | PLACE1003516 | F-PLACE1003516 | 0.17 |
|    | PLACE1003519 | F-PLACE1003519 | 0.14 |
|    | PLACE1003521 | F-PLACE1003521 | 0.17 |
|    | PLACE1003528 | F-PLACE1003528 | 0.16 |
|    | PLACE1003566 | F-PLACE1003566 | 0.16 |
| 50 | PLACE1003575 | F-PLACE1003575 | 0.06 |
|    | PLACE1003583 | F-PLACE1003583 | 0.08 |
|    | PLACE1003584 | F-PLACE1003584 | 0.1  |
|    | PLACE1003593 | F-PLACE1003593 | 0.15 |
| 55 | PLACE1003618 | F-PLACE1003618 | 0.25 |

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|----|--------------|----------------|------|
|    | PLACE1003638 | F-PLACE1003638 | 0.06 |
|    | PLACE1003760 | F-PLACE1003760 | 0.12 |
| 5  | PLACE1003768 | F-PLACE1003768 | 0.13 |
|    | PLACE1003833 | F-PLACE1003833 | 0.06 |
|    | PLACE1003850 | F-PLACE1003850 | 0.07 |
|    | PLACE1003858 | F-PLACE1003858 | 0.07 |
| 10 | PLACE1003864 | F-PLACE1003864 | 0.12 |
|    | PLACE1003900 | F-PLACE1003900 | 0.11 |
|    | PLACE1003932 | F-PLACE1003932 | 0.05 |
|    | PLACE1004118 | F-PLACE1004118 | 0.3  |
|    | PLACE1004242 | F-PLACE1004242 | 0.05 |
| 15 | PLACE1004256 | F-PLACE1004256 | 0.24 |
|    | PLACE1004257 | F-PLACE1004257 | 0.06 |
|    | PLACE1004274 | F-PLACE1004274 | 0.25 |
|    | PLACE1004284 | F-PLACE1004284 | 0.13 |
| 20 | PLACE1004336 | F-PLACE1004336 | 0.27 |
|    | PLACE1004384 | F-PLACE1004384 | 0.17 |
|    | PLACE1004425 | F-PLACE1004425 | 0.12 |
|    | PLACE1004467 | F-PLACE1004467 | 0.2  |
|    | PLACE1004471 | F-PLACE1004471 | 0.12 |
| 25 | PLACE1004491 | F-PLACE1004491 | 0.08 |
|    | PLACE1004506 | F-PLACE1004506 |      |
|    | PLACE1004518 | F-PLACE1004518 | 0.14 |
|    | PLACE1004658 | F-PLACE1004658 | 0.05 |
| 30 | PLACE1004681 | F-PLACE1004681 | 0.13 |
|    | PLACE1004693 | F-PLACE1004693 | 0.11 |
|    | PLACE1004716 | F-PLACE1004716 | 0.12 |
|    | PLACE1004773 | F-PLACE1004773 | 0.17 |
| 35 | PLACE1004793 | F-PLACE1004793 | 0.21 |
|    | PLACE1004813 | F-PLACE1004813 | 0.11 |
|    | PLACE1004815 | F-PLACE1004815 | 0.14 |
|    | PLACE1004827 | F-PLACE1004827 | 0.15 |
| 40 | PLACE1004836 | F-PLACE1004836 | 0.25 |
|    | PLACE1004838 | F-PLACE1004838 | 0.16 |
|    | PLACE1004840 | F-PLACE1004840 | 0.06 |
|    | PLACE1004900 | F-PLACE1004900 | 0.08 |
| 45 | PLACE1004913 | F-PLACE1004913 | 0.12 |
|    | PLACE1004934 | F-PLACE1004934 | 0.17 |
|    | PLACE1004972 | F-PLACE1004972 | 0.07 |
|    | PLACE1004979 | F-PLACE1004979 | 0.24 |
|    | PLACE1004985 | F-PLACE1004985 | 0.05 |
| 50 | PLACE1005052 | F-PLACE1005052 | 0.17 |
|    | PLACE1005077 | F-PLACE1005077 | 0.1  |
|    | PLACE1005085 | F-PLACE1005085 | 0.13 |
|    | PLACE1005086 | F-PLACE1005086 | 0.13 |
| 55 | PLACE1005108 | F-PLACE1005108 | 0.28 |



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|----|--------------|----------------|------|
|    | PLACE1005111 | F-PLACE1005111 | 0.15 |
|    | PLACE1005128 | F-PLACE1005128 | 0.12 |
|    | PLACE1005146 | F-PLACE1005146 | 0.07 |
| 5  | PLACE1005162 | F-PLACE1005162 | 0.13 |
|    | PLACE1005176 | F-PLACE1005176 | 0.16 |
|    | PLACE1005409 | F-PLACE1005409 | 0.09 |
|    | PLACE1005453 | F-PLACE1005453 | 0.1  |
| 10 | PLACE1005467 | F-PLACE1005467 | 0.28 |
|    | PLACE1005471 | F-PLACE1005471 | 0.06 |
|    | PLACE1005477 | F-PLACE1005477 | 0.12 |
|    | PLACE1005502 | F-PLACE1005502 | 0.1  |
| 15 | PLACE1005526 | F-PLACE1005526 |      |
|    | PLACE1005528 | F-PLACE1005528 | 0.07 |
|    | PLACE1005574 | F-PLACE1005574 | 0.06 |
|    | PLACE1005584 | F-PLACE1005584 | 0.24 |
| 20 | PLACE1005611 | F-PLACE1005611 | 0.18 |
|    | PLACE1005639 | F-PLACE1005639 | 0.09 |
|    | PLACE1005666 | F-PLACE1005666 | 0.07 |
|    | PLACE1005730 | F-PLACE1005730 | 0.2  |
| 25 | PLACE1005802 | F-PLACE1005802 | 0.1  |
|    | PLACE1005845 | F-PLACE1005845 | 0.09 |
|    | PLACE1005850 | F-PLACE1005850 | 0.22 |
|    | PLACE1005884 | F-PLACE1005884 | 0.08 |
|    | PLACE1005898 | F-PLACE1005898 | 0.12 |
| 30 | PLACE1005932 | F-PLACE1005932 | 0.13 |
|    | PLACE1005968 | F-PLACE1005968 | 0.07 |
|    | PLACE1006002 | F-PLACE1006002 | 0.08 |
|    | PLACE1006003 | F-PLACE1006003 | 0.16 |
| 35 | PLACE1006017 | F-PLACE1006017 | 0.13 |
|    | PLACE1006076 | F-PLACE1006076 | 0.11 |
|    | PLACE1006129 | F-PLACE1006129 | 0.25 |
|    | PLACE1006143 | F-PLACE1006143 | 0.08 |
| 40 | PLACE1006164 | F-PLACE1006164 | 0.05 |
|    | PLACE1006187 | F-PLACE1006187 | 0.2  |
|    | PLACE1006205 | F-PLACE1006205 | 0.08 |
|    | PLACE1006223 | F-PLACE1006223 | 0.05 |
| 45 | PLACE1006262 | F-PLACE1006262 | 0.08 |
|    | PLACE1006288 | F-PLACE1006288 | 0.06 |
|    | PLACE1006318 | F-PLACE1006318 | 0.12 |
|    | PLACE1006360 | F-PLACE1006360 | 0.07 |
|    | PLACE1006368 | F-PLACE1006368 | 0.27 |
| 50 | PLACE1006371 | F-PLACE1006371 | 0.14 |
|    | PLACE1006382 | F-PLACE1006382 | 0.09 |
|    | PLACE1006470 | F-PLACE1006470 | 0.14 |
|    | PLACE1006506 | F-PLACE1006506 | 0.24 |
| 55 | PLACE1006521 | F-PLACE1006521 | 0.08 |

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|----|--------------|----------------|-------|
|    | PLACE1006534 | F-PLACE1006534 | 0. 06 |
|    | PLACE1006540 | F-PLACE1006540 | 0. 05 |
| 5  | PLACE1006617 | F-PLACE1006617 | 0. 05 |
|    | PLACE1006629 | F-PLACE1006629 | 0. 2  |
|    | PLACE1006640 | F-PLACE1006640 | 0. 05 |
|    | PLACE1006754 | F-PLACE1006754 | 0. 08 |
|    | PLACE1006760 | F-PLACE1006760 | 0. 05 |
| 10 | PLACE1006779 | F-PLACE1006779 | 0. 17 |
|    | PLACE1006792 | F-PLACE1006792 | 0. 15 |
|    | PLACE1006795 | F-PLACE1006795 | 0. 1  |
|    | PLACE1006800 | F-PLACE1006800 | 0. 11 |
| 15 | PLACE1006805 | F-PLACE1006805 | 0. 12 |
|    | PLACE1006815 | F-PLACE1006815 | 0. 14 |
|    | PLACE1006860 | F-PLACE1006860 | 0. 06 |
|    | PLACE1006867 | F-PLACE1006867 | 0. 11 |
| 20 | PLACE1006878 | F-PLACE1006878 | 0. 23 |
|    | PLACE1006904 | F-PLACE1006904 | 0. 13 |
|    | PLACE1007045 | F-PLACE1007045 | 0. 08 |
|    | PLACE1007097 | F-PLACE1007097 | 0. 13 |
| 25 | PLACE1007111 | F-PLACE1007111 | 0. 08 |
|    | PLACE1007132 | F-PLACE1007132 | 0. 07 |
|    | PLACE1007140 | F-PLACE1007140 | 0. 16 |
|    | PLACE1007276 | F-PLACE1007276 | 0. 09 |
|    | PLACE1007286 | F-PLACE1007286 | 0. 05 |
| 30 | PLACE1007478 | F-PLACE1007478 | 0. 19 |
|    | PLACE1007525 | F-PLACE1007525 | 0. 11 |
|    | PLACE1007557 | F-PLACE1007557 | 0. 13 |
|    | PLACE1007677 | F-PLACE1007677 | 0. 08 |
| 35 | PLACE1007737 | F-PLACE1007737 | 0. 07 |
|    | PLACE1007743 | F-PLACE1007743 | 0. 09 |
|    | PLACE1007807 | F-PLACE1007807 | 0. 09 |
|    | PLACE1007829 | F-PLACE1007829 | 0. 09 |
| 40 | PLACE1007852 | F-PLACE1007852 | 0. 14 |
|    | PLACE1007866 | F-PLACE1007866 | 0. 07 |
|    | PLACE1007877 | F-PLACE1007877 | 0. 29 |
|    | PLACE1008045 | F-PLACE1008045 | 0. 17 |
| 45 | PLACE1008080 | F-PLACE1008080 | 0. 05 |
|    | PLACE1008111 | F-PLACE1008111 | 0. 11 |
|    | PLACE1008181 | F-PLACE1008181 | 0. 08 |
|    | PLACE1008201 | F-PLACE1008201 | 0. 12 |
|    | PLACE1008231 | F-PLACE1008231 | 0. 08 |
| 50 | PLACE1008244 | F-PLACE1008244 | 0. 06 |
|    | PLACE1008330 | F-PLACE1008330 | 0. 13 |
|    | PLACE1008331 | F-PLACE1008331 | 0. 15 |
|    | PLACE1008369 | F-PLACE1008369 | 0. 06 |
| 55 | PLACE1008392 | F-PLACE1008392 | 0. 09 |

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|----|--------------|----------------|------|
|    | PLACE1008405 | F-PLACE1008405 | 0.07 |
|    | PLACE1008424 | F-PLACE1008424 | 0.06 |
|    | PLACE1008426 | F-PLACE1008426 | 0.17 |
| 5  | PLACE1008437 | F-PLACE1008437 | 0.2  |
|    | PLACE1008455 | F-PLACE1008455 | 0.07 |
|    | PLACE1008584 | F-PLACE1008584 | 0.29 |
|    | PLACE1008621 | F-PLACE1008621 | 0.07 |
| 10 | PLACE1008625 | F-PLACE1008625 | 0.12 |
|    | PLACE1008630 | F-PLACE1008630 | 0.12 |
|    | PLACE1008643 | F-PLACE1008643 | 0.11 |
|    | PLACE1008715 | F-PLACE1008715 | 0.2  |
| 15 | PLACE1008748 | F-PLACE1008748 | 0.15 |
|    | PLACE1008757 | F-PLACE1008757 | 0.13 |
|    | PLACE1008798 | F-PLACE1008798 | 0.14 |
|    | PLACE1008807 | F-PLACE1008807 | 0.12 |
| 20 | PLACE1008851 | F-PLACE1008851 | 0.22 |
|    | PLACE1008920 | F-PLACE1008920 | 0.1  |
|    | PLACE1008941 | F-PLACE1008941 | 0.14 |
|    | PLACE1008947 | F-PLACE1008947 | 0.05 |
| 25 | PLACE1009020 | F-PLACE1009020 | 0.14 |
|    | PLACE1009039 | F-PLACE1009039 | 0.16 |
|    | PLACE1009048 | F-PLACE1009048 | 0.09 |
|    | PLACE1009050 | F-PLACE1009050 | 0.09 |
|    | PLACE1009150 | F-PLACE1009150 | 0.12 |
| 30 | PLACE1009155 | F-PLACE1009155 | 0.08 |
|    | PLACE1009172 | F-PLACE1009172 | 0.07 |
|    | PLACE1009183 | F-PLACE1009183 | 0.07 |
|    | PLACE1009200 | F-PLACE1009200 | 0.08 |
| 35 | PLACE1009246 | F-PLACE1009246 | 0.08 |
|    | PLACE1009308 | F-PLACE1009308 | 0.23 |
|    | PLACE1009398 | F-PLACE1009398 | 0.26 |
|    | PLACE1009410 | F-PLACE1009410 | 0.15 |
| 40 | PLACE1009477 | F-PLACE1009477 | 0.18 |
|    | PLACE1009493 | F-PLACE1009493 | 0.23 |
|    | PLACE1009539 | F-PLACE1009539 | 0.11 |
|    | PLACE1009595 | F-PLACE1009595 | 0.11 |
| 45 | PLACE1009613 | F-PLACE1009613 | 0.08 |
|    | PLACE1009621 | F-PLACE1009621 | 0.19 |
|    | PLACE1009637 | F-PLACE1009637 | 0.27 |
|    | PLACE1009639 | F-PLACE1009639 | 0.27 |
|    | PLACE1009879 | F-PLACE1009879 | 0.07 |
| 50 | PLACE1009888 | F-PLACE1009888 | 0.06 |
|    | PLACE1009924 | F-PLACE1009924 | 0.09 |
|    | PLACE1009925 | F-PLACE1009925 | 0.21 |
|    | PLACE1009935 | F-PLACE1009935 | 0.22 |
| 55 | PLACE1009947 | F-PLACE1009947 | 0.19 |

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|----|--------------|----------------|------|
|    | PLACE1010069 | F-PLACE1010069 | 0.22 |
|    | PLACE1010083 | F-PLACE1010083 | 0.26 |
|    | PLACE1010089 | F-PLACE1010089 | 0.13 |
| 5  | PLACE1010181 | F-PLACE1010181 | 0.07 |
|    | PLACE1010231 | F-PLACE1010231 | 0.17 |
|    | PLACE1010270 | F-PLACE1010270 | 0.08 |
|    | PLACE1010341 | F-PLACE1010341 | 0.1  |
| 10 | PLACE1010562 | F-PLACE1010562 | 0.14 |
|    | PLACE1010579 | F-PLACE1010579 | 0.15 |
|    | PLACE1010624 | F-PLACE1010624 | 0.13 |
|    | PLACE1010628 | F-PLACE1010628 | 0.16 |
| 15 | PLACE1010631 | F-PLACE1010631 | 0.23 |
|    | PLACE1010662 | F-PLACE1010662 | 0.24 |
|    | PLACE1010702 | F-PLACE1010702 | 0.21 |
|    | PLACE1010739 | F-PLACE1010739 | 0.13 |
| 20 | PLACE1010802 | F-PLACE1010802 | 0.17 |
|    | PLACE1010891 | F-PLACE1010891 | 0.09 |
|    | PLACE1010896 | F-PLACE1010896 | 0.22 |
|    | PLACE1010916 | F-PLACE1010916 | 0.15 |
| 25 | PLACE1010947 | F-PLACE1010947 | 0.08 |
|    | PLACE1011032 | F-PLACE1011032 | 0.17 |
|    | PLACE1011057 | F-PLACE1011057 | 0.1  |
|    | PLACE1011109 | F-PLACE1011109 | 0.08 |
|    | PLACE1011133 | F-PLACE1011133 | 0.08 |
| 30 | PLACE1011143 | F-PLACE1011143 | 0.23 |
|    | PLACE1011165 | F-PLACE1011165 | 0.05 |
|    | PLACE1011185 | F-PLACE1011185 | 0.17 |
|    | PLACE1011203 | F-PLACE1011203 | 0.08 |
| 35 | PLACE1011296 | F-PLACE1011296 | 0.13 |
|    | PLACE1011340 | F-PLACE1011340 | 0.05 |
|    | PLACE1011375 | F-PLACE1011375 | 0.07 |
|    | PLACE1011419 | F-PLACE1011419 | 0.15 |
| 40 | PLACE1011452 | F-PLACE1011452 | 0.13 |
|    | PLACE1011465 | F-PLACE1011465 | 0.14 |
|    | PLACE1011492 | F-PLACE1011492 | 0.26 |
|    | PLACE1011503 | F-PLACE1011503 | 0.14 |
| 45 | PLACE1011520 | F-PLACE1011520 | 0.12 |
|    | PLACE1011567 | F-PLACE1011567 | 0.13 |
|    | PLACE1011576 | F-PLACE1011576 | 0.29 |
|    | PLACE1011641 | F-PLACE1011641 | 0.07 |
|    | PLACE1011643 | F-PLACE1011643 | 0.27 |
| 50 | PLACE1011649 | F-PLACE1011649 | 0.17 |
|    | PLACE1011650 | F-PLACE1011650 | 0.13 |
|    | PLACE1011719 | F-PLACE1011719 | 0.15 |
|    | PLACE1011729 | F-PLACE1011729 | 0.23 |
| 55 | PLACE1011749 | F-PLACE1011749 | 0.12 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | PLACE1011762 | F-PLACE1011762 | 0.06 |
|    | PLACE1011778 | F-PLACE1011778 | 0.07 |
|    | PLACE1011874 | F-PLACE1011874 | 0.07 |
| 5  | PLACE1011962 | F-PLACE1011962 | 0.06 |
|    | PLACE1011964 | F-PLACE1011964 | 0.13 |
|    | PLACE1011995 | F-PLACE1011995 | 0.08 |
|    | PLACE2000003 | F-PLACE2000003 | 0.09 |
| 10 | PLACE2000011 | F-PLACE2000011 | 0.12 |
|    | PLACE2000017 | F-PLACE2000017 | 0.22 |
|    | PLACE2000061 | F-PLACE2000061 | 0.19 |
|    | PLACE2000103 | F-PLACE2000103 | 0.16 |
| 15 | PLACE2000115 | F-PLACE2000115 | 0.11 |
|    | PLACE2000132 | F-PLACE2000132 | 0.24 |
|    | PLACE2000136 | F-PLACE2000136 | 0.09 |
|    | PLACE2000140 | F-PLACE2000140 | 0.24 |
| 20 | PLACE2000176 | F-PLACE2000176 | 0.25 |
|    | PLACE2000187 | F-PLACE2000187 | 0.16 |
|    | PLACE2000216 | F-PLACE2000216 | 0.15 |
|    | PLACE2000264 | F-PLACE2000264 | 0.06 |
| 25 | PLACE2000305 | F-PLACE2000305 | 0.05 |
|    | PLACE2000317 | F-PLACE2000317 | 0.25 |
|    | PLACE2000335 | F-PLACE2000335 | 0.09 |
|    | PLACE2000342 | F-PLACE2000342 | 0.07 |
|    | PLACE2000347 | F-PLACE2000347 | 0.12 |
| 30 | PLACE2000366 | F-PLACE2000366 | 0.08 |
|    | PLACE2000379 | F-PLACE2000379 | 0.24 |
|    | PLACE2000394 | F-PLACE2000394 | 0.2  |
|    | PLACE2000398 | F-PLACE2000398 | 0.21 |
| 35 | PLACE2000419 | F-PLACE2000419 | 0.05 |
|    | PLACE2000425 | F-PLACE2000425 | 0.16 |
|    | PLACE2000435 | F-PLACE2000435 | 0.05 |
|    | PLACE2000450 | F-PLACE2000450 | 0.12 |
| 40 | PLACE2000455 | F-PLACE2000455 | 0.15 |
|    | PLACE2000465 | F-PLACE2000465 | 0.12 |
|    | PLACE2000477 | F-PLACE2000477 | 0.3  |
|    | PLACE3000004 | F-PLACE3000004 | 0.3  |
| 45 | PLACE3000119 | F-PLACE3000119 | 0.1  |
|    | PLACE3000124 | F-PLACE3000124 | 0.11 |
|    | PLACE3000136 | F-PLACE3000136 | 0.13 |
|    | PLACE3000158 | F-PLACE3000158 | 0.06 |
|    | PLACE3000169 | F-PLACE3000169 | 0.13 |
| 50 | PLACE3000199 | F-PLACE3000199 | 0.06 |
|    | PLACE3000207 | F-PLACE3000207 | 0.11 |
|    | PLACE3000208 | F-PLACE3000208 | 0.07 |
|    | PLACE3000218 | F-PLACE3000218 | 0.15 |
| 55 | PLACE3000220 | F-PLACE3000220 | 0.05 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | PLACE3000230 | F-PLACE3000230 | 0. 23 |
|    | PLACE3000271 | F-PLACE3000271 | 0. 17 |
|    | PLACE3000276 | F-PLACE3000276 | 0. 2  |
| 5  | PLACE3000341 | F-PLACE3000341 | 0. 08 |
|    | PLACE3000362 | F-PLACE3000362 | 0. 19 |
|    | PLACE3000365 | F-PLACE3000365 | 0. 09 |
|    | PLACE3000373 | F-PLACE3000373 | 0. 22 |
| 10 | PLACE3000388 | F-PLACE3000388 | 0. 12 |
|    | PLACE3000399 | F-PLACE3000399 | 0. 14 |
|    | PLACE3000400 | F-PLACE3000400 | 0. 08 |
|    | PLACE3000401 | F-PLACE3000401 | 0. 1  |
| 15 | PLACE3000402 | F-PLACE3000402 | 0. 1  |
|    | PLACE3000406 | F-PLACE3000406 | 0. 17 |
|    | PLACE3000475 | F-PLACE3000475 | 0. 07 |
|    | PLACE4000093 | F-PLACE4000093 | 0. 21 |
| 20 | PLACE4000100 | F-PLACE4000100 | 0. 19 |
|    | PLACE4000233 | F-PLACE4000233 | 0. 07 |
|    | PLACE4000247 | F-PLACE4000247 | 0. 14 |
|    | PLACE4000250 | F-PLACE4000250 | 0. 17 |
|    | PLACE4000252 | F-PLACE4000252 | 0. 09 |
| 25 | PLACE4000320 | F-PLACE4000320 | 0. 23 |
|    | PLACE4000344 | F-PLACE4000344 | 0. 21 |
|    | PLACE4000367 | F-PLACE4000367 | 0. 18 |
|    | PLACE4000379 | F-PLACE4000379 | 0. 14 |
| 30 | PLACE4000401 | F-PLACE4000401 | 0. 13 |
|    | PLACE4000411 | F-PLACE4000411 | 0. 11 |
|    | PLACE4000494 | F-PLACE4000494 | 0. 19 |
|    | PLACE4000548 | F-PLACE4000548 | 0. 27 |
| 35 | THYRO1000026 | F-THYRO1000026 | 0. 09 |
|    | THYRO1000035 | F-THYRO1000035 | 0. 09 |
|    | THYRO1000085 | F-THYRO1000085 | 0. 13 |
|    | THYRO1000092 | F-THYRO1000092 | 0. 21 |
| 40 | THYRO1000111 | F-THYRO1000111 | 0. 13 |
|    | THYRO1000129 | F-THYRO1000129 | 0. 11 |
|    | THYRO1000132 | F-THYRO1000132 | 0. 1  |
|    | THYRO1000156 | F-THYRO1000156 | 0. 13 |
| 45 | THYRO1000186 | F-THYRO1000186 | 0. 12 |
|    | THYRO1000187 | F-THYRO1000187 | 0. 11 |
|    | THYRO1000190 | F-THYRO1000190 | 0. 16 |
|    | THYRO1000221 | F-THYRO1000221 | 0. 08 |
|    | THYRO1000241 | F-THYRO1000241 | 0. 08 |
| 50 | THYRO1000279 | F-THYRO1000279 | 0. 13 |
|    | THYRO1000438 | F-THYRO1000438 | 0. 06 |
|    | THYRO1000452 | F-THYRO1000452 | 0. 12 |
|    | THYRO1000471 | F-THYRO1000471 | 0. 11 |
| 55 | THYRO1000484 | F-THYRO1000484 | 0. 24 |

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|----|--------------|----------------|------|
|    | THYR01000558 | F-THYR01000558 | 0.09 |
|    | THYR01000596 | F-THYR01000596 | 0.14 |
| 5  | THYR01000602 | F-THYR01000602 | 0.13 |
|    | THYR01000625 | F-THYR01000625 | 0.2  |
|    | THYR01000641 | F-THYR01000641 | 0.06 |
|    | THYR01000658 | F-THYR01000658 | 0.12 |
|    | THYR01000699 | F-THYR01000699 | 0.09 |
| 10 | THYR01000748 | F-THYR01000748 | 0.3  |
|    | THYR01000793 | F-THYR01000793 | 0.25 |
|    | THYR01000796 | F-THYR01000796 | 0.11 |
|    | THYR01000805 | F-THYR01000805 | 0.28 |
| 15 | THYR01000815 | F-THYR01000815 | 0.14 |
|    | THYR01000843 | F-THYR01000843 | 0.13 |
|    | THYR01000852 | F-THYR01000852 | 0.05 |
|    | THYR01000865 | F-THYR01000865 | 0.14 |
| 20 | THYR01000895 | F-THYR01000895 | 0.12 |
|    | THYR01000974 | F-THYR01000974 | 0.07 |
|    | THYR01000975 | F-THYR01000975 | 0.08 |
|    | THYR01001003 | F-THYR01001003 | 0.11 |
| 25 | THYR01001031 | F-THYR01001031 | 0.1  |
|    | THYR01001062 | F-THYR01001062 | 0.14 |
|    | THYR01001093 | F-THYR01001093 | 0.13 |
|    | THYR01001121 | F-THYR01001121 | 0.14 |
|    | THYR01001133 | F-THYR01001133 | 0.24 |
| 30 | THYR01001177 | F-THYR01001177 |      |
|    | THYR01001262 | F-THYR01001262 | 0.2  |
|    | THYR01001290 | F-THYR01001290 | 0.06 |
|    | THYR01001321 | F-THYR01001321 | 0.09 |
| 35 | THYR01001322 | F-THYR01001322 | 0.13 |
|    | THYR01001365 | F-THYR01001365 | 0.08 |
|    | THYR01001401 | F-THYR01001401 | 0.21 |
|    | THYR01001411 | F-THYR01001411 | 0.06 |
| 40 | THYR01001426 | F-THYR01001426 | 0.1  |
|    | THYR01001434 | F-THYR01001434 | 0.15 |
|    | THYR01001480 | F-THYR01001480 | 0.1  |
|    | THYR01001534 | F-THYR01001534 | 0.26 |
| 45 | THYR01001541 | F-THYR01001541 | 0.22 |
|    | THYR01001559 | F-THYR01001559 | 0.15 |
|    | THYR01001570 | F-THYR01001570 | 0.28 |
|    | THYR01001573 | F-THYR01001573 | 0.05 |
|    | THYR01001595 | F-THYR01001595 | 0.05 |
| 50 | THYR01001617 | F-THYR01001617 | 0.1  |
|    | THYR01001673 | F-THYR01001673 | 0.07 |
|    | THYR01001706 | F-THYR01001706 | 0.15 |
|    | THYR01001745 | F-THYR01001745 | 0.12 |
| 55 | THYR01001746 | F-THYR01001746 | 0.1  |

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|----|--------------|-----------------|-------|
|    | THYR01001772 | F-THYR01001772  | 0. 08 |
|    | THYR01001895 | F-THYR01001895  | 0. 19 |
| 5  | THYR01001907 | F-THYR01001907  | 0. 17 |
|    | Y79AA1000033 | F-Y79AA1000033  | 0. 18 |
|    | Y79AA1000065 | F-Y79AA1000065  | 0. 22 |
|    | Y79AA1000346 | F-Y79AA1000346  | 0. 2  |
| 10 | Y79AA1000405 | F-Y79AA1000405  | 0. 07 |
|    | Y79AA1000410 | F-Y79AA1000410  | 0. 08 |
|    | Y79AA1000538 | F-Y79AA1000538  | 0. 06 |
|    | Y79AA1000802 | F-Y79AA1000802  | 0. 28 |
| 15 | Y79AA1000805 | F-Y79AA1000805  | 0. 2  |
|    | Y79AA1000969 | F-Y79AA1000969  | 0. 07 |
|    | Y79AA1001061 | F-Y79AA1001061  | 0. 22 |
|    | Y79AA1001167 | F-Y79AA1001167, | 0. 22 |
| 20 | Y79AA1001384 | F-Y79AA1001384  | 0. 18 |
|    | Y79AA1001594 | F-Y79AA1001594  | 0. 22 |
|    | Y79AA1001692 | F-Y79AA1001692  | 0. 2  |
| 25 | Y79AA1001848 | F-Y79AA1001848  | 0. 21 |
|    | Y79AA1001875 | F-Y79AA1001875  | 0. 09 |
|    | Y79AA1002103 | F-Y79AA1002103  | 0. 11 |
|    | Y79AA1002211 | F-Y79AA1002211  | 0. 19 |
| 30 | Y79AA1002220 | F-Y79AA1002220  | 0. 25 |

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Table 11

574 clones belonging to groups (4), (5), (6), and (7), each having the maximal ATGpr1 score of not more than 0.3 and selected based on the maximal ATGpr2 score, and their maximal ATGpr2 scores

5  
10  
15  
20  
25  
30  
35  
40  
45  
50  
55

| clone<br>name | name of<br>sequence | maximal<br>ATGpr2<br>score |
|---------------|---------------------|----------------------------|
| HEMBA1000180  | F-HEMBA1000180      | 0.37                       |
| HEMBA1000251  | F-HEMBA1000251      | 0.14                       |
| HEMBA1000280  | F-HEMBA1000280      | 0.33                       |
| HEMBA1000282  | F-HEMBA1000282      | 0.36                       |
| HEMBA1000333  | F-HEMBA1000333      | 0.59                       |
| HEMBA1000351  | F-HEMBA1000351      | 0.36                       |
| HEMBA1000357  | F-HEMBA1000357      | 0.39                       |
| HEMBA1000376  | F-HEMBA1000376      | 0.53                       |
| HEMBA1000469  | F-HEMBA1000469      | 0.32                       |
| HEMBA1000504  | F-HEMBA1000504      | 0.34                       |
| HEMBA1000519  | F-HEMBA1000519      | 0.72                       |
| HEMBA1000545  | F-HEMBA1000545      | 0.32                       |
| HEMBA1000557  | F-HEMBA1000557      | 0.35                       |
| HEMBA1000575  | F-HEMBA1000575      | 0.34                       |

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|----|--------------|----------------|-------|
|    | HEMBA1000604 | F-HEMBA1000604 | 0. 28 |
|    | HEMBA1000622 | F-HEMBA1000622 | 0. 32 |
| 5  | HEMBA1000673 | F-HEMBA1000673 | 0. 14 |
|    | HEMBA1000726 | F-HEMBA1000726 | 0. 32 |
|    | HEMBA1000749 | F-HEMBA1000749 | 0. 35 |
|    | HEMBA1000822 | F-HEMBA1000822 | 0. 42 |
| 10 | HEMBA1000876 | F-HEMBA1000876 | 0. 44 |
|    | HEMBA1000934 | F-HEMBA1000934 | 0. 41 |
|    | HEMBA1000943 | F-HEMBA1000943 | 0. 34 |
|    | HEMBA1000960 | F-HEMBA1000960 | 0. 34 |
|    | HEMBA1000972 | F-HEMBA1000972 | 0. 44 |
| 15 | HEMBA1001020 | F-HEMBA1001020 | 0. 31 |
|    | HEMBA1001024 | F-HEMBA1001024 | 0. 22 |
|    | HEMBA1001026 | F-HEMBA1001026 | 0. 28 |
|    | HEMBA1001051 | F-HEMBA1001051 | 0. 36 |
| 20 | HEMBA1001060 | F-HEMBA1001060 | 0. 34 |
|    | HEMBA1001071 | F-HEMBA1001071 | 0. 57 |
|    | HEMBA1001208 | F-HEMBA1001208 | 0. 57 |
|    | HEMBA1001226 | F-HEMBA1001226 | 0. 44 |
| 25 | HEMBA1001319 | F-HEMBA1001319 | 0. 58 |
|    | HEMBA1001383 | F-HEMBA1001383 | 0. 35 |
|    | HEMBA1001391 | F-HEMBA1001391 | 0. 42 |
|    | HEMBA1001411 | F-HEMBA1001411 | 0. 55 |
| 30 | HEMBA1001433 | F-HEMBA1001433 | 0. 66 |
|    | HEMBA1001435 | F-HEMBA1001435 | 0. 72 |
|    | HEMBA1001478 | F-HEMBA1001478 | 0. 36 |
|    | HEMBA1001522 | F-HEMBA1001522 | 0. 31 |
| 35 | HEMBA1001636 | F-HEMBA1001636 | 0. 32 |
|    | HEMBA1001651 | F-HEMBA1001651 | 0. 54 |
|    | HEMBA1001658 | F-HEMBA1001658 | 0. 38 |
|    | HEMBA1001709 | F-HEMBA1001709 | 0. 55 |
| 40 | HEMBA1001734 | F-HEMBA1001734 | 0. 13 |
|    | HEMBA1001745 | F-HEMBA1001745 | 0. 33 |
|    | HEMBA1001784 | F-HEMBA1001784 | 0. 08 |
|    | HEMBA1001791 | F-HEMBA1001791 | 0. 48 |
|    | HEMBA1001803 | F-HEMBA1001803 | 0. 21 |
| 45 | HEMBA1001808 | F-HEMBA1001808 | 0. 23 |
|    | HEMBA1001835 | F-HEMBA1001835 | 0. 67 |
|    | HEMBA1001844 | F-HEMBA1001844 | 0. 46 |
|    | HEMBA1001888 | F-HEMBA1001888 | 0. 72 |
| 50 | HEMBA1001918 | F-HEMBA1001918 | 0. 25 |
|    | HEMBA1001940 | F-HEMBA1001940 | 0. 40 |
|    | HEMBA1001962 | F-HEMBA1001962 | 0. 63 |
|    | HEMBA1002022 | F-HEMBA1002022 | 0. 32 |
| 55 | HEMBA1002185 | F-HEMBA1002185 | 0. 33 |
|    | HEMBA1002257 | F-HEMBA1002257 | 0. 13 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBA1002348 | F-HEMBA1002348 | 0.39 |
|    | HEMBA1002621 | F-HEMBA1002621 | 0.47 |
| 5  | HEMBA1002645 | F-HEMBA1002645 | 0.34 |
|    | HEMBA1002661 | F-HEMBA1002661 | 0.43 |
|    | HEMBA1002728 | F-HEMBA1002728 | 0.45 |
|    | HEMBA1002742 | F-HEMBA1002742 | 0.49 |
| 10 | HEMBA1002921 | F-HEMBA1002921 | 0.79 |
|    | HEMBA1002924 | F-HEMBA1002924 | 0.45 |
|    | HEMBA1002934 | F-HEMBA1002934 | 0.34 |
|    | HEMBA1002968 | F-HEMBA1002968 | 0.39 |
| 15 | HEMBA1003037 | F-HEMBA1003037 | 0.43 |
|    | HEMBA1003064 | F-HEMBA1003064 | 0.19 |
|    | HEMBA1003071 | F-HEMBA1003071 | 0.48 |
|    | HEMBA1003166 | F-HEMBA1003166 | 0.32 |
| 20 | HEMBA1003202 | F-HEMBA1003202 | 0.38 |
|    | HEMBA1003204 | F-HEMBA1003204 | 0.34 |
|    | HEMBA1003220 | F-HEMBA1003220 | 0.39 |
|    | HEMBA1003229 | F-HEMBA1003229 | 0.43 |
|    | HEMBA1003276 | F-HEMBA1003276 | 0.48 |
| 25 | HEMBA1003296 | F-HEMBA1003296 | 0.36 |
|    | HEMBA1003373 | F-HEMBA1003373 | 0.48 |
|    | HEMBA1003531 | F-HEMBA1003531 | 0.46 |
|    | HEMBA1003640 | F-HEMBA1003640 | 0.32 |
| 30 | HEMBA1003714 | F-HEMBA1003714 | 0.16 |
|    | HEMBA1003856 | F-HEMBA1003856 | 0.47 |
|    | HEMBA1003902 | F-HEMBA1003902 | 0.17 |
|    | HEMBA1003908 | F-HEMBA1003908 | 0.44 |
| 35 | HEMBA1003926 | F-HEMBA1003926 | 0.36 |
|    | HEMBA1003942 | F-HEMBA1003942 | 0.47 |
|    | HEMBA1003987 | F-HEMBA1003987 | 0.39 |
|    | HEMBA1004000 | F-HEMBA1004000 | 0.87 |
| 40 | HEMBA1004024 | F-HEMBA1004024 | 0.82 |
|    | HEMBA1004164 | F-HEMBA1004164 | 0.21 |
|    | HEMBA1004267 | F-HEMBA1004267 | 0.46 |
|    | HEMBA1004323 | F-HEMBA1004323 | 0.37 |
|    | HEMBA1004405 | F-HEMBA1004405 | 0.23 |
| 45 | HEMBA1004433 | F-HEMBA1004433 | 0.51 |
|    | HEMBA1004577 | F-HEMBA1004577 | 0.51 |
|    | HEMBA1004730 | F-HEMBA1004730 | 0.55 |
|    | HEMBA1004778 | F-HEMBA1004778 | 0.47 |
| 50 | HEMBA1004803 | F-HEMBA1004803 | 0.36 |
|    | HEMBA1004807 | F-HEMBA1004807 | 0.48 |
|    | HEMBA1004880 | F-HEMBA1004880 | 0.43 |
|    | HEMBA1004900 | F-HEMBA1004900 | 0.40 |
| 55 | HEMBA1004909 | F-HEMBA1004909 | 0.24 |
|    | HEMBA1004983 | F-HEMBA1004983 | 0.35 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBA1005123 | F-HEMBA1005123 | 0.35 |
|    | HEMBA1005232 | F-HEMBA1005232 | 0.09 |
| 5  | HEMBA1005241 | F-HEMBA1005241 | 0.34 |
|    | HEMBA1005311 | F-HEMBA1005311 | 0.37 |
|    | HEMBA1005318 | F-HEMBA1005318 | 0.59 |
|    | HEMBA1005353 | F-HEMBA1005353 | 0.34 |
| 10 | HEMBA1005374 | F-HEMBA1005374 | 0.38 |
|    | HEMBA1005447 | F-HEMBA1005447 | 0.34 |
|    | HEMBA1005508 | F-HEMBA1005508 | 0.14 |
|    | HEMBA1005577 | F-HEMBA1005577 | 0.22 |
| 15 | HEMBA1005588 | F-HEMBA1005588 | 0.54 |
|    | HEMBA1005593 | F-HEMBA1005593 | 0.44 |
|    | HEMBA1005606 | F-HEMBA1005606 | 0.38 |
|    | HEMBA1005679 | F-HEMBA1005679 | 0.87 |
|    | HEMBA1005894 | F-HEMBA1005894 | 0.46 |
| 20 | HEMBA1005911 | F-HEMBA1005911 | 0.56 |
|    | HEMBA1006036 | F-HEMBA1006036 | 0.87 |
|    | HEMBA1006124 | F-HEMBA1006124 | 0.35 |
|    | HEMBA1006253 | F-HEMBA1006253 | 0.35 |
| 25 | HEMBA1006259 | F-HEMBA1006259 | 0.54 |
|    | HEMBA1006364 | F-HEMBA1006364 | 0.55 |
|    | HEMBA1006380 | F-HEMBA1006380 | 0.48 |
|    | HEMBA1006426 | F-HEMBA1006426 | 0.54 |
| 30 | HEMBA1006461 | F-HEMBA1006461 | 0.20 |
|    | HEMBA1006562 | F-HEMBA1006562 | 0.72 |
|    | HEMBA1006597 | F-HEMBA1006597 | 0.64 |
|    | HEMBA1006639 | F-HEMBA1006639 | 0.55 |
| 35 | HEMBA1006653 | F-HEMBA1006653 | 0.34 |
|    | HEMBA1006695 | F-HEMBA1006695 | 0.16 |
|    | HEMBA1006696 | F-HEMBA1006696 | 0.37 |
|    | HEMBA1006744 | F-HEMBA1006744 | 0.33 |
|    | HEMBA1006824 | F-HEMBA1006824 | 0.37 |
| 40 | HEMBA1006949 | F-HEMBA1006949 | 0.78 |
|    | HEMBA1007078 | F-HEMBA1007078 | 0.44 |
|    | HEMBA1007129 | F-HEMBA1007129 | 0.55 |
|    | HEMBA1007147 | F-HEMBA1007147 | 0.41 |
| 45 | HEMBA1007206 | F-HEMBA1007206 | 0.46 |
|    | HEMBA1007279 | F-HEMBA1007279 | 0.45 |
|    | HEMBA1007327 | F-HEMBA1007327 | 0.71 |
|    | HEMBA1000005 | F-HEMBA1000005 | 0.35 |
| 50 | HEMBA1000054 | F-HEMBA1000054 | 0.18 |
|    | HEMBA1000055 | F-HEMBA1000055 | 0.87 |
|    | HEMBA1000144 | F-HEMBA1000144 | 0.47 |
|    | HEMBA1000258 | F-HEMBA1000258 | 0.87 |
| 55 | HEMBA1000318 | F-HEMBA1000318 | 0.34 |
|    | HEMBA1000335 | F-HEMBA1000335 | 0.48 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | HEMBB1000336 | F-HEMBB1000336 | 0.35 |
|    | HEMBB1000354 | F-HEMBB1000354 | 0.47 |
|    | HEMBB1000374 | F-HEMBB1000374 | 0.69 |
| 5  | HEMBB1000402 | F-HEMBB1000402 | 0.54 |
|    | HEMBB1000404 | F-HEMBB1000404 | 0.47 |
|    | HEMBB1000480 | F-HEMBB1000480 | 0.35 |
|    | HEMBB1000493 | F-HEMBB1000493 | 0.33 |
| 10 | HEMBB1000554 | F-HEMBB1000554 | 0.46 |
|    | HEMBB1000573 | F-HEMBB1000573 | 0.34 |
|    | HEMBB1000649 | F-HEMBB1000649 | 0.41 |
|    | HEMBB1000652 | F-HEMBB1000652 | 0.46 |
| 15 | HEMBB1000709 | F-HEMBB1000709 | 0.56 |
|    | HEMBB1000749 | F-HEMBB1000749 | 0.36 |
|    | HEMBB1000790 | F-HEMBB1000790 | 0.58 |
|    | HEMBB1000827 | F-HEMBB1000827 | 0.31 |
| 20 | HEMBB1000831 | F-HEMBB1000831 | 0.42 |
|    | HEMBB1000893 | F-HEMBB1000893 | 0.36 |
|    | HEMBB1001004 | F-HEMBB1001004 | 0.43 |
|    | HEMBB1001008 | F-HEMBB1001008 | 0.44 |
| 25 | HEMBB1001047 | F-HEMBB1001047 | 0.47 |
|    | HEMBB1001119 | F-HEMBB1001119 | 0.25 |
|    | HEMBB1001142 | F-HEMBB1001142 | 0.15 |
|    | HEMBB1001315 | F-HEMBB1001315 | 0.72 |
| 30 | HEMBB1001317 | F-HEMBB1001317 | 0.49 |
|    | HEMBB1001326 | F-HEMBB1001326 | 0.44 |
|    | HEMBB1001337 | F-HEMBB1001337 | 0.18 |
|    | HEMBB1001367 | F-HEMBB1001367 | 0.35 |
| 35 | HEMBB1001424 | F-HEMBB1001424 | 0.34 |
|    | HEMBB1001436 | F-HEMBB1001436 | 0.34 |
|    | HEMBB1001458 | F-HEMBB1001458 | 0.47 |
|    | HEMBB1001535 | F-HEMBB1001535 | 0.34 |
| 40 | HEMBB1001536 | F-HEMBB1001536 | 0.22 |
|    | HEMBB1001565 | F-HEMBB1001565 | 0.35 |
|    | HEMBB1001747 | F-HEMBB1001747 | 0.40 |
|    | HEMBB1001749 | F-HEMBB1001749 | 0.39 |
|    | HEMBB1001797 | F-HEMBB1001797 | 0.79 |
| 45 | HEMBB1001836 | F-HEMBB1001836 | 0.52 |
|    | HEMBB1001863 | F-HEMBB1001863 | 0.38 |
|    | HEMBB1001868 | F-HEMBB1001868 | 0.27 |
|    | HEMBB1001875 | F-HEMBB1001875 | 0.46 |
| 50 | HEMBB1001911 | F-HEMBB1001911 | 0.87 |
|    | HEMBB1001922 | F-HEMBB1001922 | 0.38 |
|    | HEMBB1001925 | F-HEMBB1001925 | 0.33 |
|    | HEMBB1001944 | F-HEMBB1001944 | 0.35 |
| 55 | HEMBB1001983 | F-HEMBB1001983 | 0.32 |
|    | HEMBB1001996 | F-HEMBB1001996 | 0.39 |

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|----|--------------|----------------|------|
|    | HEMBB1001997 | F-HEMBB1001997 | 0.36 |
|    | HEMBB1002045 | F-HEMBB1002045 | 0.20 |
|    | HEMBB1002092 | F-HEMBB1002092 | 0.31 |
| 5  | HEMBB1002247 | F-HEMBB1002247 | 0.53 |
|    | HEMBB1002266 | F-HEMBB1002266 | 0.34 |
|    | HEMBB1002387 | F-HEMBB1002387 | 0.32 |
|    | HEMBB1002425 | F-HEMBB1002425 | 0.31 |
| 10 | HEMBB1002458 | F-HEMBB1002458 | 0.44 |
|    | HEMBB1002522 | F-HEMBB1002522 | 0.56 |
|    | HEMBB1002534 | F-HEMBB1002534 | 0.43 |
|    | HEMBB1002579 | F-HEMBB1002579 | 0.21 |
| 15 | HEMBB1002582 | F-HEMBB1002582 | 0.48 |
|    | HEMBB1002596 | F-HEMBB1002596 | 0.42 |
|    | HEMBB1002617 | F-HEMBB1002617 | 0.47 |
|    | HEMBB1002702 | F-HEMBB1002702 | 0.31 |
| 20 | MAMMA1000043 | F-MAMMA1000043 | 0.45 |
|    | MAMMA1000092 | F-MAMMA1000092 | 0.39 |
|    | MAMMA1000129 | F-MAMMA1000129 | 0.47 |
|    | MAMMA1000175 | F-MAMMA1000175 | 0.18 |
| 25 | MAMMA1000198 | F-MAMMA1000198 | 0.46 |
|    | MAMMA1000221 | F-MAMMA1000221 | 0.43 |
|    | MAMMA1000307 | F-MAMMA1000307 | 0.35 |
|    | MAMMA1000331 | F-MAMMA1000331 | 0.41 |
|    | MAMMA1000356 | F-MAMMA1000356 | 0.41 |
| 30 | MAMMA1000360 | F-MAMMA1000360 | 0.33 |
|    | MAMMA1000402 | F-MAMMA1000402 | 0.35 |
|    | MAMMA1000414 | F-MAMMA1000414 | 0.32 |
|    | MAMMA1000444 | F-MAMMA1000444 | 0.13 |
| 35 | MAMMA1000500 | F-MAMMA1000500 | 0.36 |
|    | MAMMA1000522 | F-MAMMA1000522 | 0.46 |
|    | MAMMA1000576 | F-MAMMA1000576 | 0.58 |
|    | MAMMA1000594 | F-MAMMA1000594 | 0.69 |
| 40 | MAMMA1000597 | F-MAMMA1000597 | 0.35 |
|    | MAMMA1000720 | F-MAMMA1000720 | 0.43 |
|    | MAMMA1000761 | F-MAMMA1000761 | 0.13 |
|    | MAMMA1000775 | F-MAMMA1000775 | 0.35 |
| 45 | MAMMA1000778 | F-MAMMA1000778 | 0.54 |
|    | MAMMA1000798 | F-MAMMA1000798 | 0.40 |
|    | MAMMA1000862 | F-MAMMA1000862 | 0.87 |
|    | MAMMA1000876 | F-MAMMA1000876 | 0.47 |
| 50 | MAMMA1000883 | F-MAMMA1000883 | 0.41 |
|    | MAMMA1000931 | F-MAMMA1000931 | 0.45 |
|    | MAMMA1000940 | F-MAMMA1000940 | 0.35 |
|    | MAMMA1000941 | F-MAMMA1000941 | 0.35 |
| 55 | MAMMA1000943 | F-MAMMA1000943 | 0.23 |
|    | MAMMA1000975 | F-MAMMA1000975 | 0.32 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | MAMMA1001038 | F-MAMMA1001038 | 0. 41 |
|    | MAMMA1001162 | F-MAMMA1001162 | 0. 18 |
| 5  | MAMMA1001186 | F-MAMMA1001186 | 0. 49 |
|    | MAMMA1001220 | F-MAMMA1001220 | 0. 43 |
|    | MAMMA1001256 | F-MAMMA1001256 | 0. 35 |
|    | MAMMA1001274 | F-MAMMA1001274 | 0. 57 |
| 10 | MAMMA1001341 | F-MAMMA1001341 | 0. 45 |
|    | MAMMA1001397 | F-MAMMA1001397 | 0. 64 |
|    | MAMMA1001420 | F-MAMMA1001420 | 0. 41 |
|    | MAMMA1001547 | F-MAMMA1001547 | 0. 39 |
|    | MAMMA1001590 | F-MAMMA1001590 | 0. 46 |
| 15 | MAMMA1001670 | F-MAMMA1001670 | 0. 36 |
|    | MAMMA1001679 | F-MAMMA1001679 | 0. 46 |
|    | MAMMA1001711 | F-MAMMA1001711 | 0. 68 |
|    | MAMMA1001745 | F-MAMMA1001745 | 0. 53 |
| 20 | MAMMA1001760 | F-MAMMA1001760 | 0. 58 |
|    | MAMMA1001769 | F-MAMMA1001769 | 0. 33 |
|    | MAMMA1001815 | F-MAMMA1001815 | 0. 43 |
|    | MAMMA1001820 | F-MAMMA1001820 | 0. 19 |
| 25 | MAMMA1001907 | F-MAMMA1001907 | 0. 38 |
|    | MAMMA1002056 | F-MAMMA1002056 | 0. 35 |
|    | MAMMA1002078 | F-MAMMA1002078 | 0. 34 |
|    | MAMMA1002093 | F-MAMMA1002093 | 0. 55 |
| 30 | MAMMA1002125 | F-MAMMA1002125 | 0. 39 |
|    | MAMMA1002132 | F-MAMMA1002132 | 0. 57 |
|    | MAMMA1002145 | F-MAMMA1002145 | 0. 78 |
|    | MAMMA1002250 | F-MAMMA1002250 | 0. 72 |
| 35 | MAMMA1002311 | F-MAMMA1002311 | 0. 58 |
|    | MAMMA1002360 | F-MAMMA1002360 | 0. 19 |
|    | MAMMA1002411 | F-MAMMA1002411 | 0. 40 |
|    | MAMMA1002498 | F-MAMMA1002498 | 0. 37 |
| 40 | MAMMA1002571 | F-MAMMA1002571 | 0. 32 |
|    | MAMMA1002701 | F-MAMMA1002701 | 0. 55 |
|    | MAMMA1002727 | F-MAMMA1002727 | 0. 34 |
|    | MAMMA1002728 | F-MAMMA1002728 | 0. 55 |
|    | MAMMA1002746 | F-MAMMA1002746 | 0. 45 |
| 45 | MAMMA1002764 | F-MAMMA1002764 | 0. 44 |
|    | MAMMA1002765 | F-MAMMA1002765 | 0. 40 |
|    | MAMMA1002820 | F-MAMMA1002820 | 0. 32 |
|    | MAMMA1002830 | F-MAMMA1002830 | 0. 36 |
| 50 | MAMMA1002909 | F-MAMMA1002909 | 0. 64 |
|    | MAMMA1002941 | F-MAMMA1002941 | 0. 42 |
|    | MAMMA1002972 | F-MAMMA1002972 | 0. 08 |
|    | MAMMA1002973 | F-MAMMA1002973 | 0. 35 |
| 55 | MAMMA1003004 | F-MAMMA1003004 | 0. 42 |
|    | MAMMA1003007 | F-MAMMA1003007 | 0. 41 |

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|----|--------------|----------------|-------|
|    | MAMMA1003039 | F-MAMMA1003039 | 0. 46 |
|    | MAMMA1003089 | F-MAMMA1003089 | 0. 58 |
| 5  | NT2RM4000086 | F-NT2RM4000086 | 0. 36 |
|    | NT2RM4000265 | F-NT2RM4000265 | 0. 39 |
|    | NT2RM4000366 | F-NT2RM4000366 | 0. 21 |
|    | NT2RM4000414 | F-NT2RM4000414 | 0. 35 |
| 10 | NT2RM4000425 | F-NT2RM4000425 | 0. 22 |
|    | NT2RM4000779 | F-NT2RM4000779 | 0. 43 |
|    | NT2RM4000855 | F-NT2RM4000855 | 0. 52 |
|    | NT2RM4001160 | F-NT2RM4001160 | 0. 36 |
|    | NT2RM4001313 | F-NT2RM4001313 | 0. 38 |
| 15 | NT2RM4001437 | F-NT2RM4001437 | 0. 53 |
|    | NT2RM4001754 | F-NT2RM4001754 | 0. 35 |
|    | NT2RM4001856 | F-NT2RM4001856 | 0. 27 |
| 20 | NT2RM4001953 | F-NT2RM4001953 | 0. 59 |
|    | NT2RM4001984 | F-NT2RM4001984 | 0. 35 |
|    | NT2RM4002390 | F-NT2RM4002390 | 0. 24 |
|    | NT2RP2000077 | F-NT2RP2000077 | 0. 35 |
|    | NT2RP2000108 | F-NT2RP2000108 | 0. 08 |
| 25 | NT2RP2000183 | F-NT2RP2000183 | 0. 43 |
|    | NT2RP2000257 | F-NT2RP2000257 | 0. 07 |
|    | NT2RP2000289 | F-NT2RP2000289 | 0. 35 |
|    | NT2RP2000420 | F-NT2RP2000420 | 0. 48 |
| 30 | NT2RP2000678 | F-NT2RP2000678 | 0. 55 |
|    | NT2RP2000715 | F-NT2RP2000715 | 0. 37 |
|    | NT2RP2000842 | F-NT2RP2000842 | 0. 40 |
|    | NT2RP2000970 | F-NT2RP2000970 | 0. 46 |
| 35 | NT2RP2001149 | F-NT2RP2001149 | 0. 31 |
|    | NT2RP2001226 | F-NT2RP2001226 | 0. 44 |
|    | NT2RP2001295 | F-NT2RP2001295 | 0. 40 |
|    | NT2RP2001347 | F-NT2RP2001347 | 0. 41 |
| 40 | NT2RP2001467 | F-NT2RP2001467 | 0. 44 |
|    | NT2RP2001506 | F-NT2RP2001506 | 0. 17 |
|    | NT2RP2001569 | F-NT2RP2001569 | 0. 31 |
|    | NT2RP2001663 | F-NT2RP2001663 | 0. 37 |
|    | NT2RP2001936 | F-NT2RP2001936 | 0. 33 |
| 45 | NT2RP2002041 | F-NT2RP2002041 | 0. 31 |
|    | NT2RP2002047 | F-NT2RP2002047 | 0. 15 |
|    | NT2RP2002066 | F-NT2RP2002066 | 0. 11 |
|    | NT2RP2002172 | F-NT2RP2002172 | 0. 32 |
| 50 | NT2RP2002219 | F-NT2RP2002219 | 0. 54 |
|    | NT2RP2002316 | F-NT2RP2002316 | 0. 39 |
|    | NT2RP2002475 | F-NT2RP2002475 | 0. 09 |
|    | NT2RP2002546 | F-NT2RP2002546 | 0. 33 |
| 55 | NT2RP2002591 | F-NT2RP2002591 | 0. 38 |
|    | NT2RP2002643 | F-NT2RP2002643 | 0. 55 |



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|----|--------------|----------------|-------|
|    | NT2RP2002741 | F-NT2RP2002741 | 0. 73 |
|    | NT2RP2002750 | F-NT2RP2002750 | 0. 48 |
|    | NT2RP2002778 | F-NT2RP2002778 | 0. 41 |
| 5  | NT2RP2002857 | F-NT2RP2002857 | 0. 34 |
|    | NT2RP2003000 | F-NT2RP2003000 | 0. 56 |
|    | NT2RP2003073 | F-NT2RP2003073 | 0. 36 |
|    | NT2RP2003237 | F-NT2RP2003237 | 0. 69 |
| 10 | NT2RP2003394 | F-NT2RP2003394 | 0. 34 |
|    | NT2RP2003517 | F-NT2RP2003517 | 0. 44 |
|    | NT2RP2003668 | F-NT2RP2003668 | 0. 46 |
|    | NT2RP2003988 | F-NT2RP2003988 | 0. 55 |
| 15 | NT2RP2004232 | F-NT2RP2004232 | 0. 34 |
|    | NT2RP2004400 | F-NT2RP2004400 | 0. 18 |
|    | NT2RP2004512 | F-NT2RP2004512 | 0. 11 |
|    | NT2RP2004523 | F-NT2RP2004523 | 0. 72 |
| 20 | NT2RP2004587 | F-NT2RP2004587 | 0. 09 |
|    | NT2RP2004736 | F-NT2RP2004736 | 0. 70 |
|    | NT2RP2004767 | F-NT2RP2004767 | 0. 54 |
|    | NT2RP2004775 | F-NT2RP2004775 | 0. 53 |
| 25 | NT2RP2004961 | F-NT2RP2004961 | 0. 49 |
|    | NT2RP2004962 | F-NT2RP2004962 | 0. 87 |
|    | NT2RP2004982 | F-NT2RP2004982 | 0. 32 |
|    | NT2RP2005289 | F-NT2RP2005289 | 0. 24 |
| 30 | NT2RP2005407 | F-NT2RP2005407 | 0. 33 |
|    | NT2RP2005531 | F-NT2RP2005531 | 0. 20 |
|    | NT2RP2005694 | F-NT2RP2005694 | 0. 21 |
|    | NT2RP2005726 | F-NT2RP2005726 | 0. 42 |
| 35 | NT2RP2005942 | F-NT2RP2005942 | 0. 10 |
|    | NT2RP2006258 | F-NT2RP2006258 | 0. 37 |
|    | NT2RP2006261 | F-NT2RP2006261 | 0. 42 |
|    | NT2RP2006454 | F-NT2RP2006454 | 0. 46 |
|    | NT2RP2006554 | F-NT2RP2006554 | 0. 14 |
| 40 | NT2RP3000055 | F-NT2RP3000055 | 0. 31 |
|    | NT2RP3000233 | F-NT2RP3000233 | 0. 54 |
|    | NT2RP3000341 | F-NT2RP3000341 | 0. 43 |
|    | NT2RP3000418 | F-NT2RP3000418 | 0. 53 |
| 45 | NT2RP3000451 | F-NT2RP3000451 | 0. 46 |
|    | NT2RP3000561 | F-NT2RP3000561 | 0. 47 |
|    | NT2RP3000582 | F-NT2RP3000582 | 0. 44 |
|    | NT2RP3001007 | F-NT2RP3001007 | 0. 26 |
| 50 | NT2RP3001281 | F-NT2RP3001281 | 0. 36 |
|    | NT2RP3001318 | F-NT2RP3001318 | 0. 21 |
|    | NT2RP3001339 | F-NT2RP3001339 | 0. 58 |
|    | NT2RP3001340 | F-NT2RP3001340 | 0. 41 |
|    | NT2RP3001383 | F-NT2RP3001383 | 0. 36 |
| 55 | NT2RP3001432 | F-NT2RP3001432 | 0. 34 |

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|    |              |                |      |
|----|--------------|----------------|------|
|    | NT2RP3001580 | F-NT2RP3001580 | 0.45 |
|    | NT2RP3001589 | F-NT2RP3001589 | 0.48 |
|    | NT2RP3001898 | F-NT2RP3001898 | 0.19 |
| 5  | NT2RP3002004 | F-NT2RP3002004 | 0.36 |
|    | NT2RP3002173 | F-NT2RP3002173 | 0.39 |
|    | NT2RP3003133 | F-NT2RP3003133 | 0.35 |
|    | NT2RP3003264 | F-NT2RP3003264 | 0.13 |
| 10 | NT2RP3003346 | F-NT2RP3003346 | 0.72 |
|    | NT2RP3003403 | F-NT2RP3003403 | 0.45 |
|    | NT2RP3003433 | F-NT2RP3003433 | 0.24 |
|    | NT2RP3003576 | F-NT2RP3003576 | 0.35 |
| 15 | NT2RP3003625 | F-NT2RP3003625 | 0.43 |
|    | NT2RP3003665 | F-NT2RP3003665 | 0.32 |
|    | NT2RP3003800 | F-NT2RP3003800 | 0.34 |
|    | NT2RP3003828 | F-NT2RP3003828 | 0.52 |
| 20 | NT2RP3003842 | F-NT2RP3003842 | 0.23 |
|    | NT2RP3004070 | F-NT2RP3004070 | 0.32 |
|    | NT2RP3004470 | F-NT2RP3004470 | 0.46 |
|    | NT2RP4000023 | F-NT2RP4000023 | 0.33 |
| 25 | NT2RP4000035 | F-NT2RP4000035 | 0.56 |
|    | NT2RP4000102 | F-NT2RP4000102 | 0.38 |
|    | NT2RP4000167 | F-NT2RP4000167 | 0.42 |
|    | NT2RP4000214 | F-NT2RP4000214 | 0.33 |
|    | NT2RP4000218 | F-NT2RP4000218 | 0.37 |
| 30 | NT2RP4000424 | F-NT2RP4000424 | 0.48 |
|    | NT2RP4000915 | F-NT2RP4000915 | 0.37 |
|    | NT2RP4002075 | F-NT2RP4002075 | 0.43 |
| 35 | OVARC1000017 | F-OVARC1000017 | 0.14 |
|    | OVARC1000068 | F-OVARC1000068 | 0.17 |
|    | OVARC1000085 | F-OVARC1000085 | 0.46 |
|    | OVARC1000092 | F-OVARC1000092 | 0.58 |
|    | OVARC1000145 | F-OVARC1000145 | 0.53 |
| 40 | OVARC1000414 | F-OVARC1000414 | 0.40 |
|    | OVARC1000486 | F-OVARC1000486 | 0.15 |
|    | OVARC1000496 | F-OVARC1000496 | 0.36 |
|    | OVARC1000526 | F-OVARC1000526 | 0.33 |
| 45 | OVARC1000948 | F-OVARC1000948 | 0.71 |
|    | OVARC1001011 | F-OVARC1001011 | 0.42 |
|    | OVARC1001240 | F-OVARC1001240 | 0.14 |
|    | OVARC1001600 | F-OVARC1001600 | 0.37 |
| 50 | OVARC1001805 | F-OVARC1001805 | 0.51 |
|    | OVARC1001813 | F-OVARC1001813 | 0.58 |
|    | OVARC1001846 | F-OVARC1001846 | 0.59 |
|    | PLACE1000540 | F-PLACE1000540 | 0.35 |
|    | PLACE1000599 | F-PLACE1000599 | 0.37 |
| 55 | PLACE1001088 | F-PLACE1001088 | 0.36 |

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|----|--------------|----------------|-------|
|    | PLACE1001323 | F-PLACE1001323 | 0. 21 |
|    | PLACE1001377 | F-PLACE1001377 | 0. 41 |
|    | PLACE1001440 | F-PLACE1001440 | 0. 45 |
| 5  | PLACE1001517 | F-PLACE1001517 | 0. 41 |
|    | PLACE1001672 | F-PLACE1001672 | 0. 35 |
|    | PLACE1001705 | F-PLACE1001705 | 0. 11 |
|    | PLACE1001756 | F-PLACE1001756 | 0. 67 |
| 10 | PLACE1002157 | F-PLACE1002157 | 0. 68 |
|    | PLACE1002205 | F-PLACE1002205 | 0. 55 |
|    | PLACE1002227 | F-PLACE1002227 | 0. 14 |
|    | PLACE1002259 | F-PLACE1002259 | 0. 47 |
| 15 | PLACE1002319 | F-PLACE1002319 | 0. 29 |
|    | PLACE1002399 | F-PLACE1002399 | 0. 31 |
|    | PLACE1002477 | F-PLACE1002477 | 0. 35 |
|    | PLACE1002500 | F-PLACE1002500 | 0. 26 |
| 20 | PLACE1002583 | F-PLACE1002583 | 0. 49 |
|    | PLACE1002604 | F-PLACE1002604 | 0. 25 |
|    | PLACE1002772 | F-PLACE1002772 | 0. 13 |
|    | PLACE1002853 | F-PLACE1002853 | 0. 46 |
|    | PLACE1002968 | F-PLACE1002968 | 0. 33 |
| 25 | PLACE1003238 | F-PLACE1003238 | 0. 46 |
|    | PLACE1003420 | F-PLACE1003420 | 0. 42 |
|    | PLACE1003478 | F-PLACE1003478 | 0. 20 |
|    | PLACE1003566 | F-PLACE1003566 | 0. 35 |
| 30 | PLACE1003593 | F-PLACE1003593 | 0. 42 |
|    | PLACE1003618 | F-PLACE1003618 | 0. 36 |
|    | PLACE1004274 | F-PLACE1004274 | 0. 41 |
|    | PLACE1004681 | F-PLACE1004681 | 0. 25 |
| 35 | PLACE1004716 | F-PLACE1004716 | 0. 49 |
|    | PLACE1004773 | F-PLACE1004773 | 0. 31 |
|    | PLACE1004815 | F-PLACE1004815 | 0. 72 |
|    | PLACE1004836 | F-PLACE1004836 | 0. 39 |
| 40 | PLACE1004913 | F-PLACE1004913 | 0. 44 |
|    | PLACE1004979 | F-PLACE1004979 | 0. 44 |
|    | PLACE1005052 | F-PLACE1005052 | 0. 63 |
|    | PLACE1005086 | F-PLACE1005086 | 0. 57 |
| 45 | PLACE1005108 | F-PLACE1005108 | 0. 17 |
|    | PLACE1005128 | F-PLACE1005128 | 0. 40 |
|    | PLACE1005176 | F-PLACE1005176 | 0. 48 |
|    | PLACE1005467 | F-PLACE1005467 | 0. 37 |
|    | PLACE1005639 | F-PLACE1005639 | 0. 33 |
| 50 | PLACE1005850 | F-PLACE1005850 | 0. 54 |
|    | PLACE1005932 | F-PLACE1005932 | 0. 20 |
|    | PLACE1006003 | F-PLACE1006003 | 0. 71 |
|    | PLACE1006017 | F-PLACE1006017 | 0. 42 |
| 55 | PLACE1006288 | F-PLACE1006288 | 0. 34 |

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|----|--------------|----------------|------|
|    | PLACE1006318 | F-PLACE1006318 | 0.22 |
|    | PLACE1006368 | F-PLACE1006368 | 0.10 |
|    | PLACE1006371 | F-PLACE1006371 | 0.43 |
| 5  | PLACE1006506 | F-PLACE1006506 | 0.28 |
|    | PLACE1006629 | F-PLACE1006629 | 0.44 |
|    | PLACE1006795 | F-PLACE1006795 | 0.35 |
|    | PLACE1006904 | F-PLACE1006904 | 0.20 |
| 10 | PLACE1007478 | F-PLACE1007478 | 0.70 |
|    | PLACE1007557 | F-PLACE1007557 | 0.17 |
|    | PLACE1007743 | F-PLACE1007743 | 0.28 |
|    | PLACE1007829 | F-PLACE1007829 | 0.16 |
| 15 | PLACE1007877 | F-PLACE1007877 | 0.16 |
|    | PLACE1008181 | F-PLACE1008181 | 0.39 |
|    | PLACE1008330 | F-PLACE1008330 | 0.86 |
|    | PLACE1008584 | F-PLACE1008584 | 0.61 |
| 20 | PLACE1008630 | F-PLACE1008630 | 0.09 |
|    | PLACE1008715 | F-PLACE1008715 | 0.36 |
|    | PLACE1008851 | F-PLACE1008851 | 0.39 |
|    | PLACE1008941 | F-PLACE1008941 | 0.42 |
| 25 | PLACE1009039 | F-PLACE1009039 | 0.43 |
|    | PLACE1009048 | F-PLACE1009048 | 0.24 |
|    | PLACE1009493 | F-PLACE1009493 | 0.35 |
|    | PLACE1009539 | F-PLACE1009539 | 0.31 |
|    | PLACE1009637 | F-PLACE1009637 | 0.58 |
| 30 | PLACE1009925 | F-PLACE1009925 | 0.17 |
|    | PLACE1009947 | F-PLACE1009947 | 0.42 |
|    | PLACE1010231 | F-PLACE1010231 | 0.36 |
|    | PLACE1010562 | F-PLACE1010562 | 0.63 |
| 35 | PLACE1010579 | F-PLACE1010579 | 0.42 |
|    | PLACE1010739 | F-PLACE1010739 | 0.49 |
|    | PLACE1010802 | F-PLACE1010802 | 0.41 |
|    | PLACE1010896 | F-PLACE1010896 | 0.47 |
| 40 | PLACE1011032 | F-PLACE1011032 | 0.46 |
|    | PLACE1011109 | F-PLACE1011109 | 0.19 |
|    | PLACE1011185 | F-PLACE1011185 | 0.66 |
|    | PLACE1011452 | F-PLACE1011452 | 0.72 |
| 45 | PLACE1011465 | F-PLACE1011465 | 0.51 |
|    | PLACE1011492 | F-PLACE1011492 | 0.19 |
|    | PLACE1011520 | F-PLACE1011520 | 0.54 |
|    | PLACE1011567 | F-PLACE1011567 | 0.51 |
|    | PLACE1011643 | F-PLACE1011643 | 0.21 |
| 50 | PLACE1011719 | F-PLACE1011719 | 0.55 |
|    | PLACE1011749 | F-PLACE1011749 | 0.24 |
|    | PLACE2000011 | F-PLACE2000011 | 0.48 |
|    | PLACE2000017 | F-PLACE2000017 | 0.34 |
| 55 | PLACE2000061 | F-PLACE2000061 | 0.34 |

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|    |              |                |       |
|----|--------------|----------------|-------|
|    | PLACE2000187 | F-PLACE2000187 | 0. 40 |
|    | PLACE2000216 | F-PLACE2000216 | 0. 32 |
|    | PLACE2000335 | F-PLACE2000335 | 0. 78 |
| 5  | PLACE2000347 | F-PLACE2000347 | 0. 36 |
|    | PLACE2000366 | F-PLACE2000366 | 0. 33 |
|    | PLACE2000394 | F-PLACE2000394 | 0. 54 |
|    | PLACE2000398 | F-PLACE2000398 | 0. 44 |
| 10 | PLACE2000425 | F-PLACE2000425 | 0. 47 |
|    | PLACE2000450 | F-PLACE2000450 | 0. 53 |
|    | PLACE2000477 | F-PLACE2000477 | 0. 36 |
|    | PLACE3000119 | F-PLACE3000119 | 0. 40 |
| 15 | PLACE3000207 | F-PLACE3000207 | 0. 32 |
|    | PLACE3000230 | F-PLACE3000230 | 0. 51 |
|    | PLACE3000271 | F-PLACE3000271 | 0. 41 |
|    | PLACE3000373 | F-PLACE3000373 | 0. 37 |
| 20 | PLACE3000399 | F-PLACE3000399 | 0. 42 |
|    | PLACE3000401 | F-PLACE3000401 | 0. 37 |
|    | PLACE3000406 | F-PLACE3000406 | 0. 46 |
|    | PLACE4000247 | F-PLACE4000247 | 0. 64 |
| 25 | PLACE4000320 | F-PLACE4000320 | 0. 36 |
|    | PLACE4000344 | F-PLACE4000344 | 0. 31 |
|    | PLACE4000367 | F-PLACE4000367 | 0. 32 |
|    | PLACE4000401 | F-PLACE4000401 | 0. 54 |
|    | PLACE4000548 | F-PLACE4000548 | 0. 26 |
| 30 | THYRO1000111 | F-THYRO1000111 | 0. 53 |
|    | THYRO1000129 | F-THYRO1000129 | 0. 45 |
|    | THYRO1000187 | F-THYRO1000187 | 0. 46 |
|    | THYRO1000279 | F-THYRO1000279 | 0. 09 |
| 35 | THYRO1000484 | F-THYRO1000484 | 0. 36 |
|    | THYRO1000596 | F-THYRO1000596 | 0. 47 |
|    | THYRO1000625 | F-THYRO1000625 | 0. 59 |
|    | THYRO1000793 | F-THYRO1000793 | 0. 17 |
| 40 | THYRO1000815 | F-THYRO1000815 | 0. 58 |
|    | THYRO1000865 | F-THYRO1000865 | 0. 55 |
|    | THYRO1001003 | F-THYRO1001003 | 0. 34 |
|    | THYRO1001031 | F-THYRO1001031 | 0. 43 |
| 45 | THYRO1001133 | F-THYRO1001133 | 0. 52 |
|    | THYRO1001321 | F-THYRO1001321 | 0. 37 |
|    | THYRO1001401 | F-THYRO1001401 | 0. 36 |
|    | THYRO1001426 | F-THYRO1001426 | 0. 32 |
|    | THYRO1001434 | F-THYRO1001434 | 0. 39 |
| 50 | THYRO1001559 | F-THYRO1001559 | 0. 45 |
|    | THYRO1001570 | F-THYRO1001570 | 0. 35 |
|    | THYRO1001706 | F-THYRO1001706 | 0. 45 |
|    | THYRO1001746 | F-THYRO1001746 | 0. 43 |
| 55 | THYRO1001772 | F-THYRO1001772 | 0. 37 |

|    |              |                |      |
|----|--------------|----------------|------|
|    | THYR01001907 | F-THYR01001907 | 0.33 |
|    | Y79AA1000033 | F-Y79AA1000033 | 0.53 |
| 5  | Y79AA1000346 | F-Y79AA1000346 | 0.53 |
|    | Y79AA1000410 | F-Y79AA1000410 | 0.13 |
|    | Y79AA1000805 | F-Y79AA1000805 | 0.32 |
|    | Y79AA1001692 | F-Y79AA1001692 | 0.45 |
| 10 | Y79AA1002103 | F-Y79AA1002103 | 0.15 |
|    | Y79AA1002220 | F-Y79AA1002220 | 0.49 |

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**EXAMPLE 13**

Full-length sequence analysis and homology search

[0192] Full-length sequence was determined for each selected cDNA clones. The nucleotide sequence determination was performed mainly by the dye-terminator method using custom synthesized DNA primers according to the primer walking procedure (custom synthesized DNA primers were used for sequencing; sequencing reaction was performed with DNA sequencing reagent supplied by PE Biosystems according to the supplier's manual; and the samples were analyzed in an automatic sequencer made by the same supplier). Sequence determination of some clones was carried out in the same manner but using a Licor DNA sequencer. Overlapping partial nucleotide sequences, which were obtained by the above-described method, were assembled together to determine a full-length nucleotide sequence. Amino acid sequences were then deduced from the determined full-length nucleotide sequences. However, amino acid sequence is not shown for a clone of which coding region was hard to be deduced or of which amino acid sequence has less than 100 amino acid residues. SEQ ID NOs corresponding to the respective clones are indicated in Table 350 and Table 351.

[0193] GenBank, Swiss-Prot and UniGene were searched for the determined nucleotide sequences by BLAST analysis. Matching data of cDNA clone which exhibits higher homology and of which functions are easily predicted based on the nucleotide sequences and the deduced amino acid sequences are selected from the BLAST analysis matching data with P value of  $10^{-4}$  or less. The matching data selected are listed herein. The results of homology search 6, 12, 13, and 14 are indicated in the last part of this specification. However, there are some clones that did not match the criteria for judgment and such matching data of BLAST analysis are not shown herein.

**EXAMPLE 14**

Novel full-length cDNA clone obtained from a cDNA library prepared by oligo-capping method

[0194] A cDNA clone, NT2RP4002298, was obtained from a cDNA library, NT2RP4 (see Example 1), prepared by oligo-capping method. Analysis of the entire nucleotide sequence of the clone has revealed that the clone encodes a novel protein consisting of 775 amino acids. The ATGpr1 score at the initiation codon of the amino acid sequence is 0.16, and therefore, the fullness ratio is low. However, the sequence can be full-length.

[0195] The full-length nucleotide sequence of NT2RP4002298 is shown in SEQ ID NO: 12370, and the deduced amino acid sequence encoded by the clone NT2RP4002298 is shown in SEQ ID NO: 12371.

**EXAMPLE 15**

Gene expression analysis with hybridization using high density DNA filter

[0196] Nylon membrane for DNA spotting was prepared according to the following procedure. E. coli was cultured in each well of a 96-well plate (in a LB medium at 37°C for 16 hours). A small aliquot of each culture was suspended in 10 µl of sterile water in a well of a 96-well plate. The plate was heated at 100°C for 10 minutes. Then the boiled samples were analyzed by PCR reaction. PCR was performed in a 20 µl solution by using TaKaRa PCR Amplification Kit (Takara) according to the supplier's protocol. Primers used for the amplification of an insert cDNA in a plasmid were a pair of sequencing primers, ME761FW (5' tacggaagtgttacttctgc 3' / SEQ ID NO: 13290) and ME1250RV (5' tgtgggaggttttctcta 3' / SEQ ID NO: 13291), or a pair of primers, M13M4 (5' gtttccagtcacgac 3' / SEQ ID NO: 13292)

and M13RV (5' caggaaacagctatgac 3' / SEQ ID NO: 13293). PCR reaction was performed in a thermal cycler, GeneAmp System 9600 (PE Biosystems). The cycling profile consisted of pre-heat at 95°C for 5 minutes; 10 cycles of denaturation at 95°C for 10 seconds, and annealing/extension at 68°C for 1 minute; 20 cycles of denaturation at 98°C for 20 seconds and annealing/extension at 60°C for 3 minutes; and final extension at 72°C for 10 minutes. After the PCR reaction, the 20 µl reaction solution was loaded onto a 1 % agarose gel and fractionated by electrophoresis. DNA on the gel was stained with ethidium bromide to confirm the amplification of cDNA. When cDNAs were barely amplified by PCR, plasmids containing the corresponding insert cDNAs were prepared by the alkali-extraction method (J. Sambrook, E. F., Fritsh, & T. Maniatis, "Molecular Cloning, A laboratory manual/ 2nd edition, Cold Spring Harbor Laboratory Press, 1989).

**[0197]** Preparation of DNA array was carried out by the following procedure. An Aliquot of a DNA solution was added in each well of a 384-well plate. DNA was spotted onto a nylon membrane (Boehringer) by using a 384-pin tool of Biomek 2000 Laboratory Automation Sysytem (Beckman-Coulter). Specifically, the 384-well plate containing the DNA was placed under the 384-pin tool. The independent 384 needles were simultaneously dipped into the DNA solution for DNA deposition. The needles were gently pressed onto a nylon membrane and the DNA deposited at the tips of needles was spotted onto the membrane. Denaturation of the spotted DNA and immobilization of the DNA on the nylon membrane were carried out according to usual manners (J. Sambrook, E.F., Fritsh, & T. Maniatis, "Molecular Cloning, A laboratory manual/ 2nd edition, Cold Spring Harbor Laboratory Press, 1989).

**[0198]** Hybridization probe used was radioisotope-labeled 1st strand cDNA. The 1st strand cDNA synthesis was performed by using Thermoscript<sup>TM</sup> RT-PCR System (GIBCO). Specifically, the 1st strand cDNA was synthesized by using 1.5 µg mRNAs from various human tissues (Clontech), 1 µl aliquots of 50 µM Oligo(dT)<sub>20</sub> and 50 µCi [ $\alpha$  <sup>32</sup>P] dATP according to an attached protocol. Probe purification was carried out by using ProbeQuant<sup>TM</sup> G-50 micro column (Amersham-Pharmacia Biotech) according to an attached protocol. In the next step, 2 units of E. coli RNaseH were added to the reaction mixture. The mixture was incubated at room temperature for 10 minutes and then 100 µg of human COT-1 DNA (GIBCO) was added thereto. The mixture was incubated at 37°C for 10 minutes and then was allowed to stand on ice to give hybridization probe.

**[0199]** Hybridization of the radioisotope-labeled probe to the DNA array was performed in a usual manner (J. Sambrook, E.F., Fritsh, & T. Maniatis, Molecular Cloning, A laboratory manual/ 2nd edition, Cold Spring Harbor Laboratory Press, 1989). The membrane was washed as follows: the nylon membrane was incubated in Washing solution 1 (2 × SSC, 1% SDS) at room temperature (about 26°C) for 20 minutes and this washing was repeated 3 times; then the membrane was washed 3 times by incubating it in Washing solution 2 (0.1 × SSC, 1% SDS) at 65°C for 20 minutes. Autoradiography was performed by using an image plate for BAS2000 (Fuji Photo Film Co., Ltd.). Specifically, the nylon membrane with probe hybridized thereon was wrapped with a piece of Saran Wrap and brought into tight contact with the image plate on the light-sensitive surface. The membrane with the image plate was placed in an imaging cassette for radioisotope and allowed to stand in dark place for 4 hours. The radioactivity recorded on the image plate was analyzed by using BAS2000 (Fuji Photo Film Co., Ltd.). The activity was subjected to electronic conversion and recorded as an image file of autoradiogram. The signal intensity of each DNA spot was analyzed by using Visage High Density Grid Analysis Systems (Genomic Solutions Inc.). The signal intensity was converted into numerical data. The data were taken by duplicated measurements. The reproducibility was assessed by comparing the signal intensities of the corresponding spots on the duplicated DNA filters that were hybridized to a single DNA probe (Figure 2). The ratio between the corresponding spots falls within a range of 2 or less in 95% of entire spots and the correlation coefficient is  $r=0.97$ . Thus the reproducibility is assumed to be satisfactory.

**[0200]** The detection sensitivity in gene expression analysis was estimated by examining increases in the signal intensity of probe concentration-dependent spot in hybridization using a probe complementary to the DNA spotted on the nylon membrane. DNA used was PLACE1008092 (same as DNA deposited in GenBank under an Accession No. AF107253). The DNA array with DNA of PLACE1008092 was prepared according to the above-mentioned method. The probe used was prepared as follows: mRNA was synthesized in vitro from the clone, PLACE1008092. By using this mRNA as a template, radioisotope-labeled 1st strand cDNA was synthesized in the same manner as described above, and the cDNA was used as the probe. The cDNA PLACE1008092 was inserted into pBluescript SK(-), of which T7 promoter was ligated to the 5' end of the cDNA, to give a plasmid for in vitro synthesis of the mRNA from PLACE1008092. Specifically, the PLACE1008092 insert was cut out from pME18SFL3 carrying the cDNA at a DralI site thereof by XhoI digestion. The resulting PLACE1008092 fragment was ligated to XhoI-predigested pBluescript SK (-) by using DNA ligation kit ver.2 (Takara). The in-vitro mRNA synthesis from PLACE1008092 inserted in pBluescript SK(-) was carried out by using Ampliscribe<sup>TM</sup> T7 high yield transcription kit (Epicentre technologies). Hybridization and the analysis of signal intensity of each DNA spot were conducted by the same methods as described above. When the probe concentration is  $1 \times 10^7$  µg/ml or less, there was no increase of signal intensity proportional to the probe concentration. Therefore it was assumed to be difficult to compare the signals with one another in the concentration range. Thus the spots with the intensity of 40 or less were indiscriminately taken as low-level signals (Figure 3). Within a concentration of the probe ranging from  $1 \times 10^7$  µg/ml to 0.1 µg/ml, the signal was found to increase in a probe

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concentration-dependent manner. The detection limit was then assumed to be 1:100,000 in a ratio of mRNA expression level in a sample.

[0201] Tables 12-168 (also containing clones with no description in Examples) show the expression of each cDNA in human normal tissues (heart, lung, pituitary gland, thymus, brain, kidney, liver and spleen). The expression levels are indicated by numerical values of 0-10,000. Genes that were expressed in at least a single tissue are indicated below by the corresponding clone names:

|               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|
| HEMBA1000012, | HEMBA1000020, | HEMBA1000030, | HEMBA1000042, | HEMBA1000046, |
| HEMBA1000076, | HEMBA1000111, | HEMBA1000129, | HEMBA1000150, | HEMBA1000156, |
| HEMBA1000158, | HEMBA1000168, | HEMBA1000185, | HEMBA1000216, | HEMBA1000227, |
| HEMBA1000231, | HEMBA1000243, | HEMBA1000244, | HEMBA1000280, | HEMBA1000282, |
| HEMBA1000288, | HEMBA1000303, | HEMBA1000304, | HEMBA1000327, | HEMBA1000338, |
| HEMBA1000351, | HEMBA1000355, | HEMBA1000356, | HEMBA1000357, | HEMBA1000366, |
| HEMBA1000369, | HEMBA1000376, | HEMBA1000387, | HEMBA1000392, | HEMBA1000396, |
| HEMBA1000411, | HEMBA1000422, | HEMBA1000428, | HEMBA1000456, | HEMBA1000459, |
| HEMBA1000469, | HEMBA1000488, | HEMBA1000491, | HEMBA1000501, | HEMBA1000505, |
| HEMBA1000508, | HEMBA1000519, | HEMBA1000523, | HEMBA1000534, | HEMBA1000540, |
| HEMBA1000542, | HEMBA1000545, | HEMBA1000557, | HEMBA1000561, | HEMBA1000568, |
| HEMBA1000569, | HEMBA1000575, | HEMBA1000588, | HEMBA1000591, | HEMBA1000604, |



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|    |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|
|    | HEMBA1000622, | HEMBA1000636, | HEMBA1000655, | HEMBA1000657, | HEMBA1000673, |
|    | HEMBA1000682, | HEMBA1000702, | HEMBA1000705, | HEMBA1000726, | HEMBA1000749, |
|    | HEMBA1000752, | HEMBA1000769, | HEMBA1000774, | HEMBA1000791, | HEMBA1000827, |
| 5  | HEMBA1000843, | HEMBA1000852, | HEMBA1000870, | HEMBA1000872, | HEMBA1000876, |
|    | HEMBA1000908, | HEMBA1000910, | HEMBA1000918, | HEMBA1000919, | HEMBA1000934, |
|    | HEMBA1000942, | HEMBA1000960, | HEMBA1000971, | HEMBA1000972, | HEMBA1000975, |
|    | HEMBA1000986, | HEMBA1000991, | HEMBA1001007, | HEMBA1001008, | HEMBA1001017, |
| 10 | HEMBA1001020, | HEMBA1001051, | HEMBA1001059, | HEMBA1001060, | HEMBA1001077, |
|    | HEMBA1001080, | HEMBA1001085, | HEMBA1001088, | HEMBA1001109, | HEMBA1001121, |
|    | HEMBA1001123, | HEMBA1001133, | HEMBA1001137, | HEMBA1001140, | HEMBA1001172, |
|    | HEMBA1001197, | HEMBA1001208, | HEMBA1001213, | HEMBA1001226, | HEMBA1001235, |
| 15 | HEMBA1001265, | HEMBA1001281, | HEMBA1001286, | HEMBA1001289, | HEMBA1001294, |
|    | HEMBA1001299, | HEMBA1001302, | HEMBA1001303, | HEMBA1001310, | HEMBA1001326, |
|    | HEMBA1001330, | HEMBA1001351, | HEMBA1001375, | HEMBA1001377, | HEMBA1001387, |
|    | HEMBA1001388, | HEMBA1001398, | HEMBA1001405, | HEMBA1001413, | HEMBA1001415, |
| 20 | HEMBA1001432, | HEMBA1001433, | HEMBA1001435, | HEMBA1001446, | HEMBA1001450, |
|    | HEMBA1001454, | HEMBA1001463, | HEMBA1001476, | HEMBA1001497, | HEMBA1001510, |
|    | HEMBA1001515, | HEMBA1001517, | HEMBA1001526, | HEMBA1001533, | HEMBA1001557, |
|    | HEMBA1001566, | HEMBA1001569, | HEMBA1001570, | HEMBA1001579, | HEMBA1001581, |
| 25 | HEMBA1001589, | HEMBA1001595, | HEMBA1001608, | HEMBA1001620, | HEMBA1001636, |
|    | HEMBA1001640, | HEMBA1001647, | HEMBA1001651, | HEMBA1001655, | HEMBA1001661, |
|    | HEMBA1001678, | HEMBA1001709, | HEMBA1001712, | HEMBA1001714, | HEMBA1001718, |
|    | HEMBA1001731, | HEMBA1001734, | HEMBA1001745, | HEMBA1001761, | HEMBA1001781, |
| 30 | HEMBA1001784, | HEMBA1001791, | HEMBA1001804, | HEMBA1001808, | HEMBA1001809, |
|    | HEMBA1001815, | HEMBA1001822, | HEMBA1001824, | HEMBA1001844, | HEMBA1001847, |
|    | HEMBA1001864, | HEMBA1001866, | HEMBA1001869, | HEMBA1001888, | HEMBA1001896, |
|    | HEMBA1001910, | HEMBA1001912, | HEMBA1001913, | HEMBA1001939, | HEMBA1001940, |
|    | HEMBA1001964, | HEMBA1001967, | HEMBA1001987, | HEMBA1001991, | HEMBA1002003, |
| 35 | HEMBA1002008, | HEMBA1002018, | HEMBA1002035, | HEMBA1002049, | HEMBA1002092, |
|    | HEMBA1002100, | HEMBA1002102, | HEMBA1002113, | HEMBA1002119, | HEMBA1002125, |
|    | HEMBA1002144, | HEMBA1002150, | HEMBA1002151, | HEMBA1002160, | HEMBA1002161, |
|    | HEMBA1002162, | HEMBA1002166, | HEMBA1002177, | HEMBA1002185, | HEMBA1002189, |
| 40 | HEMBA1002191, | HEMBA1002226, | HEMBA1002229, | HEMBA1002237, | HEMBA1002241, |
|    | HEMBA1002265, | HEMBA1002267, | HEMBA1002270, | HEMBA1002328, | HEMBA1002337, |
|    | HEMBA1002341, | HEMBA1002363, | HEMBA1002381, | HEMBA1002389, | HEMBA1002417, |
|    | HEMBA1002419, | HEMBA1002439, | HEMBA1002458, | HEMBA1002462, | HEMBA1002469, |
| 45 | HEMBA1002477, | HEMBA1002486, | HEMBA1002495, | HEMBA1002498, | HEMBA1002503, |
|    | HEMBA1002508, | HEMBA1002513, | HEMBA1002515, | HEMBA1002538, | HEMBA1002542, |
|    | HEMBA1002552, | HEMBA1002558, | HEMBA1002561, | HEMBA1002569, | HEMBA1002590, |
|    | HEMBA1002592, | HEMBA1002609, | HEMBA1002624, | HEMBA1002629, | HEMBA1002645, |
| 50 | HEMBA1002659, | HEMBA1002661, | HEMBA1002678, | HEMBA1002679, | HEMBA1002696, |
|    | HEMBA1002703, | HEMBA1002712, | HEMBA1002728, | HEMBA1002730, | HEMBA1002746, |
|    | HEMBA1002748, | HEMBA1002750, | HEMBA1002768, | HEMBA1002777, | HEMBA1002779, |
|    | HEMBA1002780, | HEMBA1002794, | HEMBA1002810, | HEMBA1002816, | HEMBA1002818, |
|    | HEMBA1002826, | HEMBA1002833, | HEMBA1002863, | HEMBA1002876, | HEMBA1002896, |
| 55 | HEMBA1002921, | HEMBA1002924, | HEMBA1002934, | HEMBA1002935, | HEMBA1002944, |

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|    |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|
|    | HEMBA1002968, | HEMBA1002970, | HEMBA1002971, | HEMBA1002973, | HEMBA1002997, |
|    | HEMBA1003021, | HEMBA1003033, | HEMBA1003034, | HEMBA1003037, | HEMBA1003041, |
|    | HEMBA1003046, | HEMBA1003067, | HEMBA1003071, | HEMBA1003078, | HEMBA1003079, |
| 5  | HEMBA1003083, | HEMBA1003086, | HEMBA1003098, | HEMBA1003129, | HEMBA1003133, |
|    | HEMBA1003136, | HEMBA1003142, | HEMBA1003148, | HEMBA1003166, | HEMBA1003175, |
|    | HEMBA1003179, | HEMBA1003199, | HEMBA1003202, | HEMBA1003204, | HEMBA1003212, |
|    | HEMBA1003220, | HEMBA1003229, | HEMBA1003235, | HEMBA1003257, | HEMBA1003273, |
| 10 | HEMBA1003276, | HEMBA1003278, | HEMBA1003281, | HEMBA1003286, | HEMBA1003296, |
|    | HEMBA1003314, | HEMBA1003322, | HEMBA1003327, | HEMBA1003328, | HEMBA1003330, |
|    | HEMBA1003348, | HEMBA1003370, | HEMBA1003373, | HEMBA1003376, | HEMBA1003380, |
|    | HEMBA1003384, | HEMBA1003403, | HEMBA1003408, | HEMBA1003418, | HEMBA1003447, |
| 15 | HEMBA1003461, | HEMBA1003463, | HEMBA1003480, | HEMBA1003528, | HEMBA1003531, |
|    | HEMBA1003538, | HEMBA1003556, | HEMBA1003571, | HEMBA1003581, | HEMBA1003591, |
|    | HEMBA1003595, | HEMBA1003597, | HEMBA1003598, | HEMBA1003615, | HEMBA1003617, |
|    | HEMBA1003621, | HEMBA1003637, | HEMBA1003640, | HEMBA1003645, | HEMBA1003656, |
| 20 | HEMBA1003667, | HEMBA1003680, | HEMBA1003690, | HEMBA1003692, | HEMBA1003711, |
|    | HEMBA1003714, | HEMBA1003715, | HEMBA1003720, | HEMBA1003725, | HEMBA1003729, |
|    | HEMBA1003733, | HEMBA1003742, | HEMBA1003758, | HEMBA1003760, | HEMBA1003773, |
|    | HEMBA1003803, | HEMBA1003804, | HEMBA1003805, | HEMBA1003827, | HEMBA1003836, |
|    | HEMBA1003838, | HEMBA1003864, | HEMBA1003879, | HEMBA1003880, | HEMBA1003885, |
| 25 | HEMBA1003893, | HEMBA1003902, | HEMBA1003926, | HEMBA1003937, | HEMBA1003942, |
|    | HEMBA1003958, | HEMBA1003978, | HEMBA1003987, | HEMBA1003989, | HEMBA1004011, |
|    | HEMBA1004012, | HEMBA1004024, | HEMBA1004048, | HEMBA1004049, | HEMBA1004056, |
|    | HEMBA1004074, | HEMBA1004086, | HEMBA1004097, | HEMBA1004111, | HEMBA1004131, |
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|    | Y79AA1002482, |               |               |               |               |

**[0202]** Genes that were expressed in all the tissues tested are indicated below by the corresponding clone names:

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|    | HEMBA1000702, | HEMBA1000726, | HEMBA1000774, | HEMBA1000960, | HEMBA1000986, |
| 5  | HEMBA1001051, | HEMBA1001085, | HEMBA1001109, | HEMBA1001197, | HEMBA1001226, |
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| 10 | HEMBA1002102, | HEMBA1002113, | HEMBA1002150, | HEMBA1002160, | HEMBA1002166, |

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|    | OVARC1001341, | OVARC1001342, | OVARC1001344, | OVARC1001381, | OVARC1001668, |
|    | OVARC1001731, | OVARC1001802, | OVARC1001809, | OVARC1001880, | OVARC1001950, |
|    | OVARC1001989, | OVARC1002082, | OVARC1002107, | OVARC1002165, | PLACE1000061, |
|    | PLACE1000292, | PLACE1000374, | PLACE1000401, | PLACE1000444, | PLACE1000547, |
| 50 | PLACE1000583, | PLACE1000706, | PLACE1000749, | PLACE1000972, | PLACE1001036, |
|    | PLACE1001062, | PLACE1001136, | PLACE1001304, | PLACE1001323, | PLACE1001399, |
|    | PLACE1001414, | PLACE1001456, | PLACE1001484, | PLACE1001545, | PLACE1001610, |
|    | PLACE1001761, | PLACE1001912, | PLACE1002004, | PLACE1002066, | PLACE1002532, |
| 55 | PLACE1002578, | PLACE1002655, | PLACE1002775, | PLACE1002881, | PLACE1003205, |

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|    | PLACE1003256, | PLACE1003361, | PLACE1003493, | PLACE1003519, | PLACE1003528, |
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| 5  | PLACE1004149, | PLACE1004156, | PLACE1004161, | PLACE1004242, | PLACE1004336, |
|    | PLACE1004358, | PLACE1004672, | PLACE1004736, | PLACE1004824, | PLACE1004900, |
|    | PLACE1004979, | PLACE1005086, | PLACE1005101, | PLACE1005102, | PLACE1005128, |
|    | PLACE1005232, | PLACE1005528, | PLACE1006002, | PLACE1006139, | PLACE1006412, |
| 10 | PLACE1006540, | PLACE1007132, | PLACE1007367, | PLACE1008405, | PLACE1008457, |
|    | PLACE1010310, | PLACE1011056, | PLACE1011340, | PLACE1011646, | PLACE1011783, |
|    | PLACE2000003, | PLACE2000030, | PLACE2000039, | PLACE2000047, | PLACE2000124, |
|    | PLACE2000235, | PLACE2000305, | PLACE2000335, | PLACE2000347, | PLACE2000411, |
| 15 | PLACE2000419, | PLACE2000435, | PLACE2000450, | PLACE2000465, | PLACE3000004, |
|    | PLACE3000009, | PLACE3000070, | PLACE3000124, | PLACE3000136, | PLACE3000145, |
|    | PLACE3000155, | PLACE3000158, | PLACE3000207, | PLACE3000254, | PLACE3000271, |
|    | PLACE3000304, | PLACE3000331, | PLACE3000399, | PLACE3000401, | PLACE3000455, |
| 20 | PLACE3000475, | PLACE4000009, | PLACE4000049, | PLACE4000128, | PLACE4000131, |
|    | PLACE4000192, | PLACE4000211, | PLACE4000250, | PLACE4000323, | PLACE4000445, |
|    | PLACE4000450, | PLACE4000465, | PLACE4000612, | THYRO1000085, | THYRO1000132, |
|    | THYRO1000186, | THYRO1000484, | THYRO1000569, | THYRO1000699, | THYRO1000712, |
| 25 | THYRO1000815, | THYRO1001173, | THYRO1001189, | THYRO1001401, | THYRO1001406, |
|    | THYRO1001411, | THYRO1001426, | THYRO1001480, | THYRO1001487, | THYRO1001537, |
|    | THYRO1001637, | THYRO1001772, | THYRO1001793, | THYRO1001828, | THYRO1001854, |
|    | Y79AA1000059, | Y79AA1000131, | Y79AA1000202, | Y79AA1000214, | Y79AA1000231, |
| 30 | Y79AA1000313, | Y79AA1000342, | Y79AA1000349, | Y79AA1000410, | Y79AA1000539, |
|    | Y79AA1000560, | Y79AA1000589, | Y79AA1000833, | Y79AA1000985, | Y79AA1001077, |
|    | Y79AA1001145, | Y79AA1001216, | Y79AA1001228, | Y79AA1001299, | Y79AA1001402, |
|    | Y79AA1001548, | Y79AA1001603, | Y79AA1001613, | Y79AA1001805, | Y79AA1002472, |
| 35 | Y79AA1002482. |               |               |               |               |

[0203] Genes that were expressed at low levels in any of the tissues tested are indicated below by the corresponding clone names:

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|----|---------------|---------------|-----------------|---------------|---------------|
|    | HEMBA1000005, | HEMBA1000050, | HEMBA1000141,   | HEMBA1000180, | HEMBA1000193, |
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|    | HEMBA1000302, | HEMBA1000307, | HEMBA1000333,   | HEMBA1000390, | HEMBA1000418, |
| 5  | HEMBA1000434, | HEMBA1000442, | HEMBA1000460,   | HEMBA1000464, | HEMBA1000490, |
|    | HEMBA1000504, | HEMBA1000518, | HEMBA1000520,   | HEMBA1000531, | HEMBA1000555, |
|    | HEMBA1000563, | HEMBA1000592, | HEMBA1000594,   | HEMBA1000608, | HEMBA1000637, |
|    | HEMBA1000662, | HEMBA1000686, | HEMBA1000719,   | HEMBA1000722, | HEMBA1000727, |
| 10 | HEMBA1000747, | HEMBA1000773, | HEMBA1000817,   | HEMBA1000822, | HEMBA1000851, |
|    | HEMBA1000867, | HEMBA1000869, | HEMBA1000943, ~ | HEMBA1000946, | HEMBA1000968, |
|    | HEMBA1000974, | HEMBA1000985, | HEMBA1001009,   | HEMBA1001019, | HEMBA1001022, |
|    | HEMBA1001024, | HEMBA1001026, | HEMBA1001043,   | HEMBA1001052, | HEMBA1001071, |
| 15 | HEMBA1001094, | HEMBA1001099, | HEMBA1001122,   | HEMBA1001174, | HEMBA1001247, |
|    | HEMBA1001257, | HEMBA1001319, | HEMBA1001323,   | HEMBA1001327, | HEMBA1001361, |
|    | HEMBA1001383, | HEMBA1001391, | HEMBA1001407,   | HEMBA1001411, | HEMBA1001442, |
|    | HEMBA1001455, | HEMBA1001478, | HEMBA1001522,   | HEMBA1001585, | HEMBA1001635, |
| 20 | HEMBA1001658, | HEMBA1001672, | HEMBA1001675,   | HEMBA1001681, | HEMBA1001702, |
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| 5  | HEMBA1002039, | HEMBA1002084, | HEMBA1002139, | HEMBA1002153, | HEMBA1002199, |
|    | HEMBA1002204, | HEMBA1002212, | HEMBA1002215, | HEMBA1002253, | HEMBA1002257, |
|    | HEMBA1002321, | HEMBA1002348, | HEMBA1002349, | HEMBA1002430, | HEMBA1002460, |
|    | HEMBA1002475, | HEMBA1002547, | HEMBA1002555, | HEMBA1002583, | HEMBA1002621, |
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| 15 | HEMBA1003197, | HEMBA1003222, | HEMBA1003250, | HEMBA1003291, | HEMBA1003304, |
|    | HEMBA1003309, | HEMBA1003369, | HEMBA1003395, | HEMBA1003402, | HEMBA1003417, |
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|    | HEMBA1003568, | HEMBA1003569, | HEMBA1003579, | HEMBA1003622, | HEMBA1003630, |
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|    | HEMBA1004168, | HEMBA1004199, | HEMBA1004202, | HEMBA1004207, | HEMBA1004241, |
|    | HEMBA1004248, | HEMBA1004264, | HEMBA1004272, | HEMBA1004276, | HEMBA1004286, |
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|    | HEMBA1006347, | HEMBA1006424, | HEMBA1006446, | HEMBA1006467, | HEMBA1006471, |
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| 5  | HEMBB1000883, | HEMBB1000888, | HEMBB1000973, | HEMBB1000981, | HEMBB1000985, |
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|    | NT2RM1000118, | NT2RM1000119, | NT2RM1000127, | NT2RM1000131, | NT2RM1000132, |
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|    | NT2RM1000244, | NT2RM1000257, | NT2RM1000271, | NT2RM1000280, | NT2RM1000318, |
|    | NT2RM1000354, | NT2RM1000365, | NT2RM1000388, | NT2RM1000394, | NT2RM1000399, |
|    | NT2RM1000421, | NT2RM1000430, | NT2RM1000539, | NT2RM1000563, | NT2RM1000623, |
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 PLACE1011165, PLACE1011203, PLACE1011214, PLACE1011221, PLACE1011229,  
 PLACE1011263, PLACE1011273, PLACE1011310, PLACE1011325, PLACE1011332,  
 PLACE1011375, PLACE1011399, PLACE1011419, PLACE1011433, PLACE1011465,  
 PLACE1011503, PLACE1011520, PLACE1011563, PLACE1011635, PLACE1011641,  
 PLACE1011643, PLACE1011664, PLACE1011675, PLACE1011729, PLACE1011762,  
 PLACE1011778, PLACE1011858, PLACE1011874, PLACE1011875, PLACE1011896,  
 PLACE1011964, PLACE1011982, PLACE1012031, PLACE2000006, PLACE2000014,  
 PLACE2000015, PLACE2000021, PLACE2000033, PLACE2000061, PLACE2000072,  
 PLACE2000097, PLACE2000115, PLACE2000136, PLACE2000164, PLACE2000223,  
 PLACE2000371, PLACE2000379, PLACE2000477, PLACE3000059, PLACE3000121,  
 PLACE3000160, PLACE3000199, PLACE3000218, PLACE3000244, PLACE3000310,  
 PLACE3000320, PLACE3000339, PLACE3000350, PLACE3000373, PLACE4000089,  
 PLACE4000093, PLACE4000147, PLACE4000252, PLACE4000270, PLACE4000367,  
 PLACE4000392, PLACE4000401, PLACE4000558, PLACE4000590, PLACE4000654,  
 PLACE4000670, SKNMC1000011, SKNMC1000013, SKNMC1000046, SKNMC1000050,  
 SKNMC1000091, THYRO1000035, THYRO1000111, THYRO1000121, THYRO1000124,  
 THYRO1000129, THYRO1000156, THYRO1000199, THYRO1000242, THYRO1000270,  
 THYRO1000279, THYRO1000288, THYRO1000327, THYRO1000381, THYRO1000438,  
 THYRO1000488, THYRO1000501, THYRO1000502, THYRO1000505, THYRO1000570,  
 THYRO1000596, THYRO1000605, THYRO1000641, THYRO1000662, THYRO1000734,  
 THYRO1000777, THYRO1000783, THYRO1000793, THYRO1000796, THYRO1000805,  
 THYRO1000829, THYRO1000852, THYRO1000895, THYRO1000934, THYRO1000952,  
 THYRO1001033, THYRO1001100, THYRO1001134, THYRO1001142, THYRO1001204,  
 THYRO1001262, THYRO1001271, THYRO1001290, THYRO1001347, THYRO1001559,  
 THYRO1001661, THYRO1001721, THYRO1001745, Y79AA1000328, Y79AA1000420,  
 Y79AA1000705, Y79AA1000734, Y79AA1000748, Y79AA1000752, Y79AA1000774,  
 Y79AA1000784, Y79AA1000802, Y79AA1000824, Y79AA1000827, Y79AA1000976,  
 Y79AA1001078, Y79AA1001281, Y79AA1001312, Y79AA1001493, Y79AA1001541,  
 Y79AA1001581, Y79AA1001585, Y79AA1001696, Y79AA1001781, Y79AA1001848,  
 Y79AA1001874, Y79AA1001923, Y79AA1002027, Y79AA1002115, Y79AA1002139,  
 Y79AA1002208, Y79AA1002209, Y79AA1002210, Y79AA1002220, Y79AA1002298,  
 Y79AA1002307, Y79AA1002311, Y79AA1002407, Y79AA1002416, Y79AA1002431,  
 Y79AA1002487.

**[0204]** Genes exhibiting characteristic features in the expression thereof were selected by statistical analysis of these data. Two examples are shown below to describe the selection of genes of which expression is varied greatly among tissues. The  $\beta$ ' actin gene is used frequently as a control in gene expression analysis. Genes of which expression is varied greatly among tissues as compared that of the  $\beta$ -actin gene were determined as follows. Specifically, sum of squared deviation was calculated in the signal intensity of  $\beta$ -actin observed in each tissue, which was divided by 7 degrees of freedom to determine a variance  $S_a^2$ . Next, sum of squared deviation was calculated in the signal intensity of a gene to be compared observed in each tissue, which was divided by 7 degrees of freedom to determine a variance  $S_b^2$ . By taking variance ratio F as  $F = S_b^2/S_a^2$ , genes with a significance level of 5% or more were extracted in the F distribution. Genes extracted are indicated below by the corresponding clone names:

HEMBA1002113, HEMBA1005296, HEMBA1007121, HEMBB1000637, HEMBB1000915, MAMMA1000597, MAMMA1000605, MAMMA1000962, MAMMA1001139, MAMMA1001198, MAMMA1002858, NT2RM2001896, NT2RP2002710, NT2RP2004339, NT2RP2004538, NT2RP3000348, NT2RP3003121, PLACE3000009,

PLACE3000254, THYRO1000569, Y79AA1000131.

[0205] Gene of OVARC1000037 (heterogeneous nuclear ribonucleoprotein (hnRNP)) which expression is varied little. Genes of which expression is varied greatly among tissues as compared that of the OVARC1000037 gene were determined as follows. Specifically, sum of squared deviation was calculated in the signal intensity of  $\beta$ -actin observed in each tissue, which was divided by 7 degrees of freedom to determine a variance  $S_a^2$ . Next, sum of squared deviation was calculated in the signal intensity of a gene to be compared observed in each tissue, which was divided by 7 degrees of freedom to determine a variance  $S_b^2$ . By taking variance ratio F as  $F=S_b^2/S_a^2$ , genes with a significance level of 5% or more were extracted in the F distribution. Genes extracted are indicated below, by the corresponding clone names:

|    |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|
| 10 | HEMBA1000304, | NT2RM2001716, | NT2RM2001840, | HEMBA1001051, | HEMBA1001109, |
|    | OVARC1001731, | HEMBA1000726, | HEMBA1001286, | HEMBA1000387, | HEMBA1000519, |
|    | NT2RM2001896, | HEMBA1000042, | HEMBA1001085, | HEMBA1001330, | OVARC1000576, |
|    | HEMBA1000575, | NT2RM2000599, | NT2RM2000714, | HEMBA1000469, | NT2RM4000366, |
| 15 | HEMBA1001377, | HEMBA1000769, | HEMBA1000338, | NT2RM2000795, | HEMBA1001299, |
|    | HEMBA1000508, | HEMBA1000150, | HEMBA1000774, | HEMBA1001226, | HEMBA1000960, |
|    | NT2RM4000795, | HEMBA1002162, | NT2RM4001876, | NT2RM4002482, | HEMBA1001678, |
|    | HEMBA1002113, | NT2RM4002383, | HEMBA1002229, | HEMBA1002818, | HEMBA1001454, |
| 20 | NT2RM4000764, | HEMBA1001510, | HEMBA1001714, | HEMBA1002150, | NT2RM4002044, |
|    | HEMBA1002728, | NT2RM4002189, | HEMBA1001991, | HEMBA1002166, | NT2RM4002499, |
|    | NT2RM4001140, | NT2RM4002504, | HEMBA1002590, | HEMBA1001435, | PLACE1000706, |
|    | HEMBA1002160, | HEMBA1001824, | HEMBA1001463, | HEMBA1001533, | HEMBA1001570, |
| 25 | PLACE1001036, | HEMBA1001651, | HEMBA1002381, | HEMBA1002934, | HEMBA1003370, |
|    | HEMBA1003021, | HEMBA1003166, | NT2RP1000738, | NT2RP2000040, | HEMBA1004164, |
|    | HEMBA1003836, | HEMBA1004267, | NT2RP2000845, | HEMBA1003041, | HEMBA1003571, |
|    | HEMBA1003758, | NT2RP2000108, | HEMBA1003838, | NT2RP1000357, | HEMBA1003376, |
| 30 | PLACE1003528, | HEMBA1003528, | NT2RP1001475, | HEMBA1004049, | HEMBA1003212, |
|    | HEMBA1003667, | PLACE1004149, | HEMBA1003926, | HEMBA1004306, | HEMBA1004024, |
|    | NT2RP1000363, | HEMBA1003033, | HEMBA1004335, | HEMBA1003348, | HEMBA1003034, |
|    | NT2RP2001081, | HEMBA1004056, | HEMBA1003314, | HEMBA1003827, | HEMBA1003893, |
| 35 | NT2RP2001036, | NT2RP2001168, | NT2RP2001328, | HEMBA1005035, | NT2RP2001569, |
|    | NT2RP2002439, | HEMBA1005511, | HEMBA1005999, | NT2RP2002862, | NT2RP2002979, |
|    | NT2RP2001394, | HEMBA1004753, | NT2RP2002621, | HEMBA1005853, | HEMBA1005443, |
|    | NT2RP2002980, | NT2RP2001347, | HEMBA1005241, | NT2RP2002750, | NT2RP2003533, |
| 40 | HEMBA1005634, | NT2RP2003034, | HEMBA1006138, | NT2RP2003117, | NT2RP2001366, |
|    | HEMBA1005079, | NT2RP2003293, | NT2RP2002710, | HEMBA1005911, | NT2RP2002752, |
|    | HEMBA1006036, | NT2RP2002987, | HEMBA1006100, | HEMBA1004460, | HEMBA1004538, |
|    | NT2RP2001943, | NT2RP2002033, | HEMBA1005296, | HEMBA1005829, | HEMBA1005520, |
| 45 | HEMBA1005123, | HEMBA1005552, | HEMBA1004930, | NT2RP2001312, | HEMBA1005304, |
|    | HEMBA1005834, | HEMBA1005990, | HEMBA1005526, | NT2RP2003073, | HEMBA1005331, |
|    | HEMBA1006744, | HEMBA1006780, | NT2RP2004339, | HEMBA1000173, | HEMBA1007113, |
| 50 | NT2RP2005908, | HEMBA1000376, | HEMBA1000024, | HEMBA1000510, | NT2RP2004580, |

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|    |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|
|    | NT2RP2003912, | HEMBA1006381, | NT2RP2004270, | HEMBA1006993, | NT2RP2005325, |
|    | HEMBB1000218, | HEMBA1007121, | HEMBB1000434, | NT2RP2006166, | PLACE1010310, |
|    | HEMBB1000589, | NT2RP2003986, | HEMBA1006419, | HEMBB1000141, | HEMBB1000030, |
| 5  | HEMBB1000099, | HEMBA1006624, | NT2RP2003988, | NT2RP2005753, | HEMBA1007147, |
|    | HEMBB1000354, | NT2RP2006023, | HEMBB1000441, | HEMBB1000523, | HEMBB1000059, |
|    | HEMBA1006631, | NT2RP2004538, | HEMBA1006695, | HEMBB1000490, | NT2RP2006184, |
|    | HEMBB1000573, | NT2RP2004675, | HEMBA1007078, | NT2RP2005457, | NT2RP2005491, |
| 10 | HEMBB1000491, | HEMBB1000575, | PLACE1008405, | NT2RP2005773, | NT2RP2005354, |
|    | HEMBB1000337, | HEMBB1000008, | NT2RP2005701, | NT2RP2003825, | HEMBB1000215, |
|    | HEMBB1000258, | NT2RP2005496, | HEMBB1000374, | NT2RP2005581, | HEMBB1000018, |
|    | HEMBB1000493, | HEMBB1000554, | HEMBB1000671, | NT2RP3000348, | HEMBB1001267, |
| 15 | HEMBB1002092, | HEMBB1001749, | PLACE3000304, | HEMBB1001834, | HEMBB1001142, |
|    | HEMBB1001177, | HEMBB1000840, | HEMBB1001436, | HEMBB1001921, | HEMBB1002005, |
|    | NT2RP3001398, | HEMBB1002069, | HEMBB1002094, | HEMBB1001836, | HEMBB1001114, |
|    | NT2RP3000628, | HEMBB1001367, | HEMBB1001588, | HEMBB1002249, | HEMBB1000684, |
| 20 | NT2RP2006571, | HEMBB1001802, | HEMBB1000915, | HEMBB1000996, | NT2RP3001274, |
|    | HEMBB1001564, | NT2RP3000968, | PLACE3000156, | HEMBB1002045, | NT2RP3000341, |
|    | HEMBB1000917, | PLACE1011090, | NT2RP3000742, | PLACE2000435, | HEMBB1001944, |
|    | PLACE3000254, | HEMBB1002218, | NT2RP2006436, | NT2RP3000320, | HEMBB1001126, |
|    | HEMBB1000749, | NT2RP3000644, | HEMBB1001527, | NT2RP3000850, | HEMBB1001967, |
| 25 | PLACE3000401, | HEMBB1000637, | HEMBB1001234, | NT2RP3000080, | PLACE2000411, |
|    | PLACE3000009, | PLACE3000070, | HEMBB1002134, | PLACE3000475, | PLACE4000192, |
|    | HEMBB1002520, | HEMBB1002545, | MAMMA1000155, | MAMMA1000307, | THYRO1000787, |
|    | MAMMA1000348, | MAMMA1000372, | NT2RP3003121, | MAMMA1000851, | MAMMA1000501, |
| 30 | THYRO1000569, | MAMMA1000576, | MAMMA1000605, | HEMBB1002442, | HEMBB1002596, |
|    | MAMMA1000198, | MAMMA1000714, | MAMMA1000356, | MAMMA1000760, | MAMMA1000416, |
|    | MAMMA1000931, | MAMMA1000962, | HEMBB1002387, | NT2RP3001712, | HEMBB1002556, |
|    | HEMBB1002617, | MAMMA1000171, | PLACE4000612, | MAMMA1000761, | MAMMA1000421, |
| 35 | MAMMA1000444, | HEMBB1002358, | HEMBB1002453, | HEMBB1002664, | HEMBB1002699, |
|    | MAMMA1000720, | MAMMA1000360, | MAMMA1000744, | MAMMA1000802, | MAMMA1000839, |
|    | MAMMA1000478, | MAMMA1000877, | MAMMA1000585, | MAMMA1000941, | NT2RP3002909, |
|    | MAMMA1000968, | HEMBB1002457, | HEMBB1002495, | MAMMA1000057, | MAMMA1000696, |
| 40 | MAMMA1000942, | MAMMA1000302, | MAMMA1000943, | MAMMA1000998, | NT2RP3001752, |
|    | NT2RP3003032, | MAMMA1000429, | MAMMA1000565, | MAMMA1000594, | MAMMA1000625, |
|    | NT2RP3002146, | MAMMA1000084, | MAMMA1000257, | NT2RP3003157, | MAMMA1000431, |
|    | MAMMA1000597, | MAMMA1001078, | MAMMA1001126, | THYRO1001537, | NT2RP3004093, |
| 45 | MAMMA1001202, | NT2RP3003842, | Y79AA1000342, | MAMMA1002311, | MAMMA1001969, |
|    | Y79AA1000560, | MAMMA1002359, | MAMMA1002056, | MAMMA1002413, | MAMMA1002454, |
|    | MAMMA1002612, | MAMMA1001411, | MAMMA1001035, | MAMMA1001080, | MAMMA1001133, |
|    | NT2RP3004095, | MAMMA1001161, | MAMMA1001203, | MAMMA1001663, | NT2RP3003819, |
|    | MAMMA1001745, | MAMMA1001790, | NT2RP3004470, | NT2RP3004503, | MAMMA1002293, |
| 50 | NT2RP4000321, | MAMMA1001880, | Y79AA1000410, | MAMMA1001970, | MAMMA1002058, |
|    | NT2RP4000515, | MAMMA1002215, | MAMMA1002617, | NT2RP3003576, | MAMMA1001139, |
|    | MAMMA1001576, | Y79AA1000131, | MAMMA1001330, | MAMMA1001769, | MAMMA1001383, |
|    | MAMMA1002032, | MAMMA1002125, | MAMMA1002174, | NT2RP4000614, | NT2RP4000243, |
| 55 | NT2RP3004110, | MAMMA1001271, | MAMMA1001296, | MAMMA1001992, | MAMMA1002033, |

MAMMA1002428, MAMMA1002590, MAMMA1001186, MAMMA1002267, MAMMA1002322,  
 MAMMA1001956, MAMMA1002155, NT2RP4000210, MAMMA1002622, NT2RP3004125,  
 MAMMA1001220, MAMMA1001683, NT2RP3004348, Y79AA1000214, Y79AA1000833,  
 5 NT2RP4000212, MAMMA1002230, MAMMA1001452, MAMMA1001620, MAMMA1001256,  
 MAMMA1001760, NT2RP3004349, MAMMA1001783, MAMMA1001907, MAMMA1002009,  
 MAMMA1002545, NT2RP4000214, NT2RP4000728, MAMMA1001465, MAMMA1001154,  
 10 MAMMA1001198, MAMMA1001343, MAMMA1002310, NT2RP4000035, NT2RP4000833,  
 MAMMA1003150, MAMMA1002886, NT2RP4001938, NT2RM2000260, MAMMA1002629,  
 MAMMA1002973, MAMMA1002721, MAMMA1002909, NT2RP4001100, NT2RM1000857,  
 NT2RP4000878, MAMMA1002844, NT2RM1000039, NT2RP4001174, MAMMA1002665,  
 MAMMA1003047, NT2RM1000086, NT2RM1000260, NT2RM1000355, MAMMA1002701,  
 15 NT2RP4000918, MAMMA1002830, MAMMA1002970, NT2RP4001677, NT2RM2000422,  
 MAMMA1003004, MAMMA1002673, MAMMA1003031, MAMMA1002764, MAMMA1002858,  
 NT2RP4001679, NT2RP4002888, MAMMA1002711, NT2RP4001276, NT2RM1000018,  
 20 NT2RP4001568, NT2RM1000883.

**[0206]** Thus, characteristic features in the expression of a gene are illustrated by comparing and \_ statistically analyzing the expression of many genes.

#### 25 Analysis of disease-associated genes

**[0207]** Non-enzymic protein glycation reaction is believed to be a cause of a variety of chronic diabetic complications. Accordingly, genes of which expression is elevated or decreased in a glyated protein-specific manner in the endothelial cells are associated with diabetic complications caused by glyated proteins. Vascular endothelial cells are affected with glyated proteins present in blood. Reaction products of non-enzymic protein glycation include amadori compound (glycated protein) as a mildly glyated protein and advanced glycation endproduct as a heavily glyated protein. Hence, a survey was carried out for genes of which expression levels are varied depending on the presence of these glyated proteins in endothelial cells. The mRNAs were extracted from endothelial cells that were cultured in the presence or absence of glyated protein. The mRNAs were converted into radiolabeled first strand cDNAs for preparing probes.

35 The probes were hybridized to the above-mentioned DNA array. Signal of each DNA spot was detected by BAS2000 and analyzed by ArrayGauge (Fuji Photo Film Co., Ltd.).

**[0208]** Advanced glycation endproduct of bovine serum albumin was prepared as follows: bovine serum albumin (BSA; Sigma) was incubated in a phosphate buffer solution containing 50 mM glucose at 37°C for 8 weeks; and the resulting brownish BSA was dialyzed against a phosphate buffer solution.

40 **[0209]** Human normal pulmonary arterial endothelial cells (Cell Applications) were cultured in an Endothelial Cell Growth Medium (Cell Applications). The culture dish (Falcon) with the cells were incubated in a CO<sub>2</sub> incubator (37°C, 5% CO<sub>2</sub>, in a humid atmosphere). When the cells were grown to be confluent in the dish, 250 µg/ml of bovine serum albumin (sigma), glycated bovine serum albumin (Sigma) or advanced glycation endproduct of bovine serum albumin was added thereto and the cells were incubated for 33 hours. The mRNA was extracted from the cells by using a

45 FastTrack<sup>TM</sup> 2.0 kit (Invitrogen). The labeling of hybridization probe was carried out by using the mRNA according to the same procedure as described above.

**[0210]** Table 169 shows the expression level of each cDNA in human pulmonary arterial endothelial cells cultured in a medium containing bovine serum albumin (sigma), glycated bovine serum albumin (Sigma) or advanced glycation endproduct of bovine serum albumin. Genes of which expression was detected in the endothelial cell are as follows:



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|    |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|
|    | HEMBA1000005, | HEMBA1000012, | HEMBA1000020, | HEMBA1000042, | HEMBA1000046, |
|    | HEMBA1000076, | HEMBA1000111, | HEMBA1000150, | HEMBA1000185, | HEMBA1000216, |
|    | HEMBA1000231, | HEMBA1000280, | HEMBA1000282, | HEMBA1000288, | HEMBA1000304, |
| 5  | HEMBA1000327, | HEMBA1000338, | HEMBA1000356, | HEMBA1000357, | HEMBA1000366, |
|    | HEMBA1000376, | HEMBA1000387, | HEMBA1000428, | HEMBA1000456, | HEMBA1000459, |
|    | HEMBA1000460, | HEMBA1000469, | HEMBA1000501, | HEMBA1000504, | HEMBA1000505, |
|    | HEMBA1000508, | HEMBA1000519, | HEMBA1000534, | HEMBA1000540, | HEMBA1000542, |
| 10 | HEMBA1000555, | HEMBA1000557, | HEMBA1000575, | HEMBA1000592, | HEMBA1000604, |
|    | HEMBA1000622, | HEMBA1000636, | HEMBA1000655, | HEMBA1000673, | HEMBA1000682, |
|    | HEMBA1000686, | HEMBA1000702, | HEMBA1000726, | HEMBA1000727, | HEMBA1000749, |
|    | HEMBA1000769, | HEMBA1000774, | HEMBA1000791, | HEMBA1000827, | HEMBA1000852, |
| 15 | HEMBA1000872, | HEMBA1000876, | HEMBA1000918, | HEMBA1000942, | HEMBA1000960, |
|    | HEMBA1000974, | HEMBA1001020, | HEMBA1001051, | HEMBA1001059, | HEMBA1001060, |
|    | HEMBA1001080, | HEMBA1001085, | HEMBA1001088, | HEMBA1001109, | HEMBA1001122, |
|    | HEMBA1001123, | HEMBA1001140, | HEMBA1001172, | HEMBA1001196, | HEMBA1001197, |
| 20 | HEMBA1001213, | HEMBA1001226, | HEMBA1001235, | HEMBA1001247, | HEMBA1001265, |
|    | HEMBA1001281, | HEMBA1001286, | HEMBA1001299, | HEMBA1001302, | HEMBA1001326, |
|    | HEMBA1001330, | HEMBA1001351, | HEMBA1001377, | HEMBA1001387, | HEMBA1001398, |
|    | HEMBA1001432, | HEMBA1001433, | HEMBA1001435, | HEMBA1001446, | HEMBA1001450, |
|    | HEMBA1001454, | HEMBA1001463, | HEMBA1001497, | HEMBA1001510, | HEMBA1001517, |
| 25 | HEMBA1001526, | HEMBA1001533, | HEMBA1001557, | HEMBA1001566, | HEMBA1001569, |
|    | HEMBA1001570, | HEMBA1001579, | HEMBA1001581, | HEMBA1001595, | HEMBA1001608, |
|    | HEMBA1001620, | HEMBA1001640, | HEMBA1001647, | HEMBA1001651, | HEMBA1001655, |
|    | HEMBA1001658, | HEMBA1001678, | HEMBA1001714, | HEMBA1001718, | HEMBA1001723, |
| 30 | HEMBA1001746, | HEMBA1001784, | HEMBA1001791, | HEMBA1001800, | HEMBA1001804, |
|    | HEMBA1001809, | HEMBA1001819, | HEMBA1001824, | HEMBA1001844, | HEMBA1001866, |
|    | HEMBA1001888, | HEMBA1001912, | HEMBA1001913, | HEMBA1001918, | HEMBA1001940, |
|    | HEMBA1001960, | HEMBA1001987, | HEMBA1001991, | HEMBA1002003, | HEMBA1002008, |
| 35 | HEMBA1002049, | HEMBA1002100, | HEMBA1002102, | HEMBA1002113, | HEMBA1002119, |
|    | HEMBA1002125, | HEMBA1002151, | HEMBA1002153, | HEMBA1002160, | HEMBA1002161, |
|    | HEMBA1002166, | HEMBA1002185, | HEMBA1002189, | HEMBA1002191, | HEMBA1002226, |
|    | HEMBA1002229, | HEMBA1002237, | HEMBA1002241, | HEMBA1002267, | HEMBA1002270, |
| 40 | HEMBA1002337, | HEMBA1002348, | HEMBA1002381, | HEMBA1002458, | HEMBA1002462, |
|    | HEMBA1002469, | HEMBA1002503, | HEMBA1002508, | HEMBA1002542, | HEMBA1002547, |
|    | HEMBA1002552, | HEMBA1002558, | HEMBA1002583, | HEMBA1002590, | HEMBA1002592, |
|    | HEMBA1002609, | HEMBA1002624, | HEMBA1002629, | HEMBA1002645, | HEMBA1002678, |
|    | HEMBA1002688, | HEMBA1002703, | HEMBA1002712, | HEMBA1002728, | HEMBA1002730, |
| 45 | HEMBA1002750, | HEMBA1002770, | HEMBA1002779, | HEMBA1002780, | HEMBA1002818, |
|    | HEMBA1002833, | HEMBA1002876, | HEMBA1002934, | HEMBA1002935, | HEMBA1002968, |
|    | HEMBA1002970, | HEMBA1002973, | HEMBA1003021, | HEMBA1003033, | HEMBA1003034, |
|    | HEMBA1003041, | HEMBA1003046, | HEMBA1003064, | HEMBA1003067, | HEMBA1003079, |
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|    | OVARC1000846, | OVARC1000883, | OVARC1000886, | OVARC1000890, | OVARC1000891, |
|    | OVARC1000912, | OVARC1000915, | OVARC1000937, | OVARC1000959, | OVARC1000960, |
| 50 | OVARC1000964, | OVARC1000999, | OVARC1001000, | OVARC1001011, | OVARC1001038, |
|    | OVARC1001040, | OVARC1001051, | OVARC1001055, | OVARC1001062, | OVARC1001065, |
|    | OVARC1001107, | OVARC1001117, | OVARC1001118, | OVARC1001154, | OVARC1001161, |
|    | OVARC1001162, | OVARC1001167, | OVARC1001170, | OVARC1001171, | OVARC1001173, |

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|    | OVARC1001342, | OVARC1001344, | OVARC1001357, | OVARC1001376, | OVARC1001381, |
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|    | OVARC1001577, | OVARC1001668, | OVARC1001711, | OVARC1001713, | OVARC1001731, |
|    | OVARC1001745, | OVARC1001766, | OVARC1001802, | OVARC1001809, | OVARC1001813, |
|    | OVARC1001820, | OVARC1001880, | OVARC1001883, | OVARC1001900, | OVARC1001942, |
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|    | PLACE1000424, | PLACE1000435, | PLACE1000444, | PLACE1000453, | PLACE1000481, |
|    | PLACE1000540, | PLACE1000547, | PLACE1000562, | PLACE1000583, | PLACE1000599, |
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|    | PLACE1000849, | PLACE1000863, | PLACE1000909, | PLACE1000931, | PLACE1000972, |
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|    | PLACE1001062, | PLACE1001092, | PLACE1001118, | PLACE1001136, | PLACE1001168, |
|    | PLACE1001185, | PLACE1001238, | PLACE1001257, | PLACE1001272, | PLACE1001280, |
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| 30 | PLACE1001705, | PLACE1001740, | PLACE1001746, | PLACE1001748, | PLACE1001756, |
|    | PLACE1001761, | PLACE1001771, | PLACE1001781, | PLACE1001821, | PLACE1001844, |
|    | PLACE1001845, | PLACE1001869, | PLACE1001897, | PLACE1001912, | PLACE1001989, |
|    | PLACE1002004, | PLACE1002066, | PLACE1002072, | PLACE1002090, | PLACE1002119, |
| 35 | PLACE1002140, | PLACE1002171, | PLACE1002205, | PLACE1002213, | PLACE1002342, |
|    | PLACE1002395, | PLACE1002477, | PLACE1002493, | PLACE1002500, | PLACE1002532, |
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|    | PLACE1002655, | PLACE1002775, | PLACE1002815, | PLACE1002816, | PLACE1002834, |
|    | PLACE1002853, | PLACE1002881, | PLACE1002968, | PLACE1002991, | PLACE1002993, |
| 40 | PLACE1002996, | PLACE1003025, | PLACE1003027, | PLACE1003092, | PLACE1003100, |
|    | PLACE1003108, | PLACE1003136, | PLACE1003153, | PLACE1003174, | PLACE1003190, |
|    | PLACE1003205, | PLACE1003249, | PLACE1003256, | PLACE1003296, | PLACE1003302, |
|    | PLACE1003353, | PLACE1003361, | PLACE1003366, | PLACE1003373, | PLACE1003420, |
| 45 | PLACE1003493, | PLACE1003516, | PLACE1003519, | PLACE1003521, | PLACE1003528, |
|    | PLACE1003537, | PLACE1003566, | PLACE1003575, | PLACE1003584, | PLACE1003592, |
|    | PLACE1003596, | PLACE1003602, | PLACE1003605, | PLACE1003611, | PLACE1003638, |
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|    | PLACE1004751, | PLACE1004813, | PLACE1004814, | PLACE1004815, | PLACE1004824, |
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| 15 | PLACE1005374, | PLACE1005453, | PLACE1005467, | PLACE1005477, | PLACE1005481, |
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|    | PLACE1007858, | PLACE1007866, | PLACE1007877, | PLACE1007908, | PLACE1007969, |
|    | PLACE1008129, | PLACE1008132, | PLACE1008330, | PLACE1008398, | PLACE1008401, |
| 35 | PLACE1008405, | PLACE1008426, | PLACE1008455, | PLACE1008457, | PLACE1008603, |
|    | PLACE1008629, | PLACE1008693, | PLACE1008798, | PLACE1008851, | PLACE1009060, |
|    | PLACE1009091, | PLACE1009155, | PLACE1009166, | PLACE1009183, | PLACE1009200, |
|    | PLACE1009230, | PLACE1009246, | PLACE1009298, | PLACE1009319, | PLACE1009328, |
| 40 | PLACE1009443, | PLACE1009468, | PLACE1009539, | PLACE1009595, | PLACE1009607, |
|    | PLACE1009621, | PLACE1009622, | PLACE1009659, | PLACE1009763, | PLACE1009798, |
|    | PLACE1009861, | PLACE1009879, | PLACE1009888, | PLACE1009924, | PLACE1009995, |
|    | PLACE1009997, | PLACE1010023, | PLACE1010074, | PLACE1010076, | PLACE1010096, |
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|    | PLACE1011056, | PLACE1011057, | PLACE1011090, | PLACE1011109, | PLACE1011114, |
|    | PLACE1011185, | PLACE1011214, | PLACE1011291, | PLACE1011332, | PLACE1011340, |
|    | PLACE1011371, | PLACE1011452, | PLACE1011477, | PLACE1011492, | PLACE1011567, |
| 55 | PLACE1011576, | PLACE1011586, | PLACE1011635, | PLACE1011646, | PLACE1011719, |

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|    | PLACE2000170, | PLACE2000176, | PLACE2000187, | PLACE2000216, | PLACE2000235, |
|    | PLACE2000246, | PLACE2000264, | PLACE2000302, | PLACE2000305, | PLACE2000335, |
| 10 | PLACE2000341, | PLACE2000342, | PLACE2000347, | PLACE2000366, | PLACE2000371, |
|    | PLACE2000373, | PLACE2000394, | PLACE2000399, | PLACE2000404, | PLACE2000411, |
|    | PLACE2000419, | PLACE2000450, | PLACE2000458, | PLACE2000465, | PLACE3000004, |
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| 15 | PLACE3000121, | PLACE3000124, | PLACE3000145, | PLACE3000147, | PLACE3000155, |
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|    | PLACE3000208, | PLACE3000220, | PLACE3000221, | PLACE3000226, | PLACE3000242, |
|    | PLACE3000254, | PLACE3000271, | PLACE3000304, | PLACE3000320, | PLACE3000331, |
| 20 | PLACE3000339, | PLACE3000341, | PLACE3000350, | PLACE3000352, | PLACE3000353, |
|    | PLACE3000362, | PLACE3000388, | PLACE3000399, | PLACE3000400, | PLACE3000404, |
|    | PLACE3000405, | PLACE3000425, | PLACE3000455, | PLACE3000475, | PLACE3000477, |
|    | PLACE4000009, | PLACE4000034, | PLACE4000049, | PLACE4000063, | PLACE4000089, |
|    | PLACE4000100, | PLACE4000128, | PLACE4000131, | PLACE4000156, | PLACE4000211, |
| 25 | PLACE4000222, | PLACE4000230, | PLACE4000233, | PLACE4000250, | PLACE4000259, |
|    | PLACE4000320, | PLACE4000323, | PLACE4000379, | PLACE4000411, | PLACE4000431, |
|    | PLACE4000445, | PLACE4000450, | PLACE4000465, | PLACE4000487, | PLACE4000521, |
|    | PLACE4000581, | SKNMC1000011, | SKNMC1000050, | SKNMC1000091, | THYRO1000017, |
| 30 | THYRO1000085, | THYRO1000092, | THYRO1000132, | THYRO1000163, | THYRO1000186, |
|    | THYRO1000187, | THYRO1000190, | THYRO1000197, | THYRO1000221, | THYRO1000241, |
|    | THYRO1000253, | THYRO1000320, | THYRO1000394, | THYRO1000438, | THYRO1000452, |
|    | THYRO1000471, | THYRO1000484, | THYRO1000569, | THYRO1000602, | THYRO1000625, |
| 35 | THYRO1000658, | THYRO1000676, | THYRO1000699, | THYRO1000712, | THYRO1000715, |
|    | THYRO1000815, | THYRO1000829, | THYRO1000843, | THYRO1000855, | THYRO1000865, |
|    | THYRO1000916, | THYRO1000974, | THYRO1000975, | THYRO1000983, | THYRO1000984, |
|    | THYRO1000988, | THYRO1001003, | THYRO1001031, | THYRO1001093, | THYRO1001133, |
|    | THYRO1001173, | THYRO1001177, | THYRO1001189, | THYRO1001204, | THYRO1001213, |
| 40 | THYRO1001287, | THYRO1001320, | THYRO1001321, | THYRO1001374, | THYRO1001401, |
|    | THYRO1001405, | THYRO1001406, | THYRO1001411, | THYRO1001426, | THYRO1001480, |
|    | THYRO1001487, | THYRO1001534, | THYRO1001537, | THYRO1001541, | THYRO1001559, |
|    | THYRO1001573, | THYRO1001584, | THYRO1001595, | THYRO1001602, | THYRO1001617, |
| 45 | THYRO1001637, | THYRO1001656, | THYRO1001671, | THYRO1001673, | THYRO1001703, |
|    | THYRO1001706, | THYRO1001738, | THYRO1001772, | THYRO1001793, | THYRO1001828, |
|    | THYRO1001854, | THYRO1001907, | VESEN1000122, | Y79AA1000033, | Y79AA1000037, |
|    | Y79AA1000059, | Y79AA1000065, | Y79AA1000131, | Y79AA1000202, | Y79AA1000214, |
|    | Y79AA1000231, | Y79AA1000268, | Y79AA1000313, | Y79AA1000342, | Y79AA1000346, |
| 50 | Y79AA1000349, | Y79AA1000355, | Y79AA1000368, | Y79AA1000405, | Y79AA1000410, |
|    | Y79AA1000420, | Y79AA1000469, | Y79AA1000480, | Y79AA1000538, | Y79AA1000539, |
|    | Y79AA1000560, | Y79AA1000589, | Y79AA1000627, | Y79AA1000705, | Y79AA1000734, |
|    | Y79AA1000774, | Y79AA1000782, | Y79AA1000784, | Y79AA1000827, | Y79AA1000833, |

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Y79AA1000850, Y79AA1000966, Y79AA1000968, Y79AA1000985, Y79AA1001061,  
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 Y79AA1002089, Y79AA1002093, Y79AA1002115, Y79AA1002125, Y79AA1002209,  
 Y79AA1002211, Y79AA1002220, Y79AA1002246, Y79AA1002258, Y79AA1002311,  
 Y79AA1002351, Y79AA1002361, Y79AA1002472, Y79AA1002482

**[0211]** Signal ratios of EC\_AGE\_BSA to EC\_BSA and of EC\_glycated\_BSA to EC\_BSA were calculated for each gene. Genes with high signal ratios were selected. In the case of calculating the ratio of signal value of 40 or less to that of more than 40, such signal values were, for convenience, taken as 40 instead of the real values. When the ratio EC\_AGE\_BSA/EC\_BSA is 2 or more, expression of the genes exhibiting such ratio is expected to be elevated due to advanced glycation endproduct of bovine serum albumin. The higher the value is, the higher the gene expression level is. When the ratio EC\_AGE\_BSA/EC\_BSA ranges from 0.5 to 2, expression of the genes exhibiting such ratio is expected to be unaffected due to advanced glycation endproduct of bovine serum albumin. When the ratio EC\_AGE\_BSA/EC\_BSA is less than 0.5, expression of the genes exhibiting such ratio value is expected to be decreased due to advanced glycation endproduct of bovine serum albumin. The lower the value is, the lower the gene expression level is.

**[0212]** Clone with EC\_AGE\_BSA/EC\_BSA ratio of 2 or higher are as follows: HEMBA1003958, MAMMA1001256, PLACE2000411.

**[0213]** Clone with EC\_AGE\_BSA/EC\_BSA ratio of 0.5 or less is as follows: MAMMA1001783. These cDNAs are associated with diabetes.

**[0214]** When the ratio EC\_glycated\_BSA/EC\_BSA is 2 or more, the expression level of the gene exhibiting such ratio is expected to be elevated due to glycated bovine serum albumin. The higher the value is, the higher the gene expression level is. When the ratio EC\_glycated\_BSA/EC\_BSA ranges from 0.5 to 2, the expression level of the gene exhibiting such ratio is expected to be unaffected with glycated bovine serum albumin. When the ratio EC\_glycated\_BSA/EC\_BSA is less than 0.5, the expression level of a gene exhibiting such ratio is expected to be decreased due to glycated bovine serum albumin. The lower the value is, the lower the gene expression level is.

**[0215]** Clones with EC\_glycated\_BSA/EC\_BSA ratio of 2 or more are as follows: HEMBA1004850, MAMMA1001256, MAMMA1002132 and PLACE3000119.

**[0216]** A clone with EC\_glycated\_BSA/EC\_BSA ratio of 0.5 or less is as follows: MAMMA1001783.

**[0217]** These cDNAs are also associated with diabetes.

#### Analysis of genes associated with neural cell differentiation

**[0218]** Genes involved in neural cell differentiation are useful for treating neurological diseases. It is possible that genes with varying expression levels in response to induction of cellular differentiation in neural cells are associated with neurological diseases.

**[0219]** A survey was performed for genes of which expression levels are varied in response to induction of differentiation (stimulation by retinoic acid (RA)) in cultured cells of a neural strain, NT2.

**[0220]** The NT2 cells were treated basically according to supplier's instruction manual. "Undifferentiated NT2 cells" means NT2 cells successively cultured in an Opti-MEM I (GIBCO-BRL; catalog No. 31985) containing 10%(v/v) fetal bovine serum and 1%(v/v) penicillin-streptomycin (GIBCO BRL). "NT2 cells cultured in the presence of retinoic acid" means the cells resulted from transferring undifferentiated NT2 cells into a retinoic acid-containing medium, which consists of D-MEM (GIBCO BRL; catalog No. 11965), 10%(v/v) fetal bovine serum, 1%(v/v) penicillin-streptomycin and 10  $\mu$ M retinoic acid (GIBCO-BRL), and the subsequent successive culture therein for 5 weeks. "NT2 cells that were cultured in the presence of retinoic acid and then further cultured in the presence of cell-division inhibitor added" means NT2 cells resulted from transferring NT2 cells cultured in the presence of retinoic acid for 5 weeks into a cell-division inhibitor-containing medium, which consisted of D-MEM (GIBCO BRL; catalog No. 11965), 10%(v/v) fetal bovine serum, 1%(v/v) penicillin-streptomycin, 10  $\mu$ M retinoic acid, 10  $\mu$ M FudR (5-fluoro-2'-deoxyuridine: GIBCO BRL), 10  $\mu$ M Urd (Uridine: GIBCO BRL) and 1  $\mu$ M araC (Cytosine  $\beta$ -D-Arabinofuranoside: GIBCO BRL), and the subsequent succes-

sive culture for 2 weeks. Each of the cells were treated with trypsin and then harvested. Total RNAs were extracted from the cells by using S.N.A.P.<sup>(TM)</sup> Total RNA Isolation kit (Invitrogen<sup>(r)</sup>). The labeling of probe used for hybridization was carried out by using 10 µg of the total RNA according to the same methods as described above. The data were obtained in triplicate (n=3). The data of signal value representing gene expression level in the cells in the presence of stimulation for inducing differentiation were compared with those in the absence of the stimulation. The comparison was performed by statistical treatment-of two-sample t-test. Clones with significant difference in the signal distribution were selected under the condition of  $p < 0.05$ . In this analysis, clones with the difference can be statistically detected even when the signals were low. Accordingly, clones with signal value of 40 or less were also assessed for the selection.

[0221] Tables 170-349 show the expression level of each cDNA in undifferentiated NT2 cells, NT2 cells cultured in the presence of RA, and NT2 cells that were cultured in the presence of RA and that were further cultured in the presence of cell-division inhibitor added.

[0222] Averaged signal values ( $M_1$ ,  $M_2$ ) and sample variances ( $s_1^2$ ,  $s_2^2$ ) were calculated for each gene in each of the cells, and then, the pooled sample variances  $s^2$  were obtained from the sample variances of the two types of cells to be compared. The t values were determined according to the following formula:  $t = (M_1 - M_2) / s / (1/3 + 1/3)^{1/2}$ . When the determined t-value was greater than a t-value at P, which means the probability of significance level, of 0.05 or 0.01 in the t-distribution table with 4 degrees of freedom, the difference was judged to be found in the expression level of the gene between the two types of cells at  $p < 0.05$  or  $p < 0.01$ , respectively. The tables also include the information on an increase (+) or decrease (-) in the expression level of a gene in the treated cells when the level is compared with that of untreated undifferentiated cells.

[0223] Clones of which expression levels increased by RA are as follows:

HEMBA1000005, HEMBA1000042, HEMBA1000046, HEMBA1000076, HEMBA1000111, HEMBA1000141,  
 HEMBA1000150, HEMBA1000185, HEMBA1000282, HEMBA1000304, HEMBA1000307, HEMBA1000338,  
 HEMBA1000357, HEMBA1000376, HEMBA1000387, HEMBA1000392, HEMBA1000428, HEMBA1000456,  
 HEMBA1000459, HEMBA1000469, HEMBA1000504, HEMBA1000508, HEMBA1000519, HEMBA1000540,  
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|    | OVARC1001767, | OVARC1001802, | OVARC1001812, | OVARC1001820, | OVARC1001873, | OVARC1001883, |
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| 5  | PLACE1010965,  | PLACE1011041, | PLACE1011046, | PLACE1011054, | PLACE1011057,  | PLACE1011090, |
|    | PLACE1011109,  | PLACE1011203, | PLACE1011214, | PLACE1011296, | PLACE1011340,  | PLACE1011433, |
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|    | PLACE2000017,  | PLACE2000021, | PLACE2000033, | PLACE2000039, | PLACE2000047,  | PLACE2000062, |
| 10 | PLACE2000103,  | PLACE2000124, | PLACE2000170, | PLACE2000216, | PLACE2000235,  | PLACE2000264, |
|    | PLACE2000302,  | PLACE2000305, | PLACE2000335, | PLACE2000342, | PLACE2000347,  | PLACE2000379, |
|    | PLACE2000394,  | PLACE2000433, | PLACE2000450, | PLACE2000465, | PLACE3000103,  | PLACE3000119, |
|    | PLACE3000121,  | PLACE3000124, | PLACE3000155, | PLACE3000158, | PLACE3000207,  | PLACE3000220, |
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| 15 | PLACE3000362,  | PLACE3000365, | PLACE3000388, | PLACE3000399, | PLACE3000400,  | PLACE3000401, |
|    | PLACE3000402,  | PLACE3000425, | PLACE3000455, | PLACE4000034, | PLACE4000049,  | PLACE4000089, |
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| 20 | THYRO1000034,  | THYRO1000085, | THYRO1000092, | THYRO1000111, | THYRO1000156,  | THYRO1000163, |
|    | THYRO1000173,  | THYRO1000190, | THYRO1000197, | THYRO1000221, | THYRO1000241,  | THYRO1000327, |
|    | THYRO1000381,  | THYRO1000387, | THYRO1000394, | THYRO1000488, | THYRO1000585,  | THYRO1000625, |
|    | THYRO1000637,  | THYRO1000658, | THYRO1000666, | THYRO1000676, | THYRO1000684,  | THYRO1000712, |
|    | THYRO1000734,  | THYRO1000793, | THYRO1000796, | THYRO1000805, | THYRO1000815,  | THYRO1000865, |
| 25 | THYRO1000916,  | THYRO1000934, | THYRO1000974, | THYRO1000975, | THYRO1001031,  | THYRO1001062, |
|    | THYRO1001093,  | THYRO1001133, | THYRO1001173, | THYRO1001177, |                |               |
|    | THYRO1001189,  | THYRO1001204, | THYRO1001213, | THYRO1001262, | THYRO1001290,  | THYRO1001320, |
|    | THYRO1001322,  | THYRO1001401, | THYRO1001406, | THYRO1001426, | THYRO1001480,  | THYRO1001487, |
|    | THYRO1001537,  | THYRO1001595, | THYRO1001617, | THYRO1001637, | THYRO1001706,  | THYRO1001772, |
| 30 | THYRO1001828,  | THYRO1001854, | Y79AA1000059, | Y79AA1000214, | Y79AA1000355,  | Y79AA1000410, |
|    | Y79AA1000538,  | Y79AA1000539, | Y79AA1000705, | Y79AA1000800, | Y79AA1000850,  | Y79AA1000962, |
|    | Y79AA1000976,  | Y79AA1001061, | Y79AA1001068, | Y79AA1001493, | Y79AA1001548,  | Y79AA1001585, |
|    | Y79AA1001594,  | Y79AA1001696, | Y79AA1001711, | Y79AA1002103, | Y79AA1002115,  | Y79AA1002258, |
|    | Y79AA1002361,  | Y79AA1002407, | Y79AA1002472, | Y79AA1002482, |                |               |
| 35 | <b>[0224]</b> Clones of which expression levels decreased by RA are as follows:          |               |               |               |                |               |
|    | HEMBA1000946,  | HEMBA1003569, | HEMBA1005570, | HEMBA1000915, | NT2RM1000666,  | NT2RM2000092, |
|    | NT2RM2000594,  | NT2RM2001256, | NT2RM4001754, | NT2RM4001905, | NT2RP2001675,  | NT2RP2002047, |
|    | NT2RP2005491,  | NT2RP3000980, | NT2RP3002081, | NT2RP3004594, | NT2RP4001950,  | NT2RP4002408, |
|    | OVARC1000431,  | OVARC1001942, | OVARC1001943, | PLACE1003190, | PLACE1004868,  | PLACE1005923, |
| 40 | PLACE1007257,  | PLACE1010624, | Y79AA1000346, |               |                |               |
|    | <b>[0225]</b> Clones of which expression levels increase by RA/inhibitor are as follows: |               |               |               |                |               |
|    | HEMBA1000046,  | HEMBA1000307, | HEMBA1000434, | HEMBA1000504, | HEMBA1000588,  | HEMBA1000682, |
|    | HEMBA1000726,  | HEMBA1000943, | HEMBA1001071, | HEMBA1001094, | HEMBA1001122,  | HEMBA1001323, |
|    | HEMBA1001361,  | HEMBA1001455, | HEMBA1001709, | HEMBA1001746, | HEMBA1001869,  | HEMBA1002084, |
| 45 | HEMBA1002583,  | HEMBA1002628, | HEMBA1002801, | HEMBA1002937, | HEMBA1003096,  | HEMBA1003142, |
|    | HEMBA1003229,  | HEMBA1003276, | HEMBA1003309, | HEMBA1003463, | HEMBA1003597,  | HEMBA1003617, |
|    | HEMBA1003725,  | HEMBA1003803, | HEMBA1003879, | HEMBA1003989, | HEMBA1004000,  | HEMBA1004015, |
|    | HEMBA1004024,  | HEMBA1004049, | HEMBA1004056, | HEMBA1004199, | HEMBA1004248,  | HEMBA1004356, |
|    | HEMBA1004554,  | HEMBA1004666, | HEMBA1004725, | HEMBA1004770, | HEMBA1004803,  | HEMBA1004923, |
| 50 | HEMBA1004934,  | HEMBA1004954, | HEMBA1005039, | HEMBA1005075, | HEMBA1005113,  | HEMBA1005219, |
|    | HEMBA1005232,  | HEMBA1005251, | HEMBA1005304, | HEMBA1005367, | HEMBA1005372,  | HEMBA1005403, |
|    | HEMBA1005410,  | HEMBA1005411, | HEMBA1005548, | HEMBA1005581, | HEMBA1005631,  | HEMBA1005666, |
|    | HEMBA1005755,  | HEMBA1005780, | HEMBA1006067, | HEMBA1006130, | HEMBA1006364,  | HEMBA1006485, |
|    | HEMBA1006559,  | HEMBA1006579, | HEMBA1006754, | HEMBA1000059, | HEMBA10000575, | HEMBA1000709, |
| 55 | HEMBA1000822,  | HEMBA1000848, | HEMBA1000852, | HEMBA1000913, | HEMBA1000985,  | HEMBA1001117, |
|    | HEMBA1001210,  | HEMBA1001317, | HEMBA1001394, | HEMBA1001443, | HEMBA1001668,  | HEMBA1001695, |
|    | HEMBA1002049,  | HEMBA1002254, | HEMBA1002266, | HEMBA1002371, | HEMBA1002502,  | HEMBA1002614, |
|    | HEMBA1002617,  | HEMBA1002692, | HEMBA1002697, | MAMMA1000241, | MAMMA1000424,  | MAMMA1000616, |

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|    | MAMMA1000731, | MAMMA1000824, | MAMMA1000908, | MAMMA1000956, | MAMMA1001038, | MAMMA1001091, |
|    | MAMMA1001243, | MAMMA1001815, | MAMMA1001820, | MAMMA1002267, | MAMMA1002769, | MAMMA1002871, |
|    | MAMMA1002941, | NT2RM1000355, | NT2RM1000725, | NT2RM1000829, | NT2RM1000850, | NT2RM1000898, |
|    | NT2RM2000504, | NT2RM2000635, | NT2RM2000718, | NT2RM2000821, | NT2RM2001370, | NT2RM2001582, |
| 5  | NT2RM2001592, | NT2RM2001613, | NT2RM2001632, | NT2RM2001635, | NT2RM2001648, | NT2RM2001659, |
|    | NT2RM2001671, | NT2RM2001695, | NT2RM2001760, | NT2RM2001782, | NT2RM2001839, | NT2RM2001879, |
|    | NT2RM2001983, | NT2RM4000104, | NT2RM4000290, | NT2RM4000425, | NT2RM4000433, | NT2RM4000471, |
|    | NT2RM4000531, | NT2RM4000852, | NT2RM4001047, | NT2RM4001347, | NT2RM4001454, | NT2RM4001557, |
|    | NT2RM4001566, | NT2RM4001582, | NT2RM4001938, | NT2RM4001953, | NT2RM4002018, | NT2RM4002409, |
| 10 | NT2RM4002558, | NT2RM4002594, | NT2RP1000259, | NT2RP1000418, | NT2RP1000574, | NT2RP1000629, |
|    | NT2RP1000782, | NT2RP1000856, | NT2RP1000943, | NT2RP1000988, | NT2RP1001013, | NT2RP1001173, |
|    | NT2RP1001546, | NT2RP2000091, | NT2RP2000208, | NT2RP2000274, | NT2RP2000329, | NT2RP2000369, |
|    | NT2RP2000634, | NT2RP2000842, | NT2RP2000943, | NT2RP2000987, | NT2RP2001094, | NT2RP2001277, |
|    | NT2RP2001290, | NT2RP2001366, | NT2RP2001423, | NT2RP2001436, | NT2RP2001467, | NT2RP2001506, |
| 15 | NT2RP2001601, | NT2RP2001663, | NT2RP2001926, | NT2RP2001985, | NT2RP2002032, | NT2RP2002041, |
|    | NT2RP2002046, | NT2RP2002078, | NT2RP2002124, | NT2RP2002185, | NT2RP2002193, | NT2RP2002312, |
|    | NT2RP2002316, | NT2RP2002426, | NT2RP2002457, | NT2RP2002475, | NT2RP2002520, | NT2RP2002595, |
|    | NT2RP2002643, | NT2RP2002672, | NT2RP2002701, | NT2RP2002710, | NT2RP2002727, | NT2RP2003099, |
|    | NT2RP2003121, | NT2RP2003137, | NT2RP2003158, | NT2RP2003206, | NT2RP2003230, | NT2RP2003272, |
| 20 | NT2RP2003280, | NT2RP2003347, | NT2RP2003393, | NT2RP2003401, | NT2RP2003445, | NT2RP2003456, |
|    | NT2RP2003511, | NT2RP2003517, | NT2RP2003543, | NT2RP2003596, | NT2RP2003706, | NT2RP2003871, |
|    | NT2RP2004681, | NT2RP2004743, | NT2RP2004775, | NT2RP2004933, | NT2RP2004967, | NT2RP2005003, |
|    | NT2RP2005270, | NT2RP2005289, | NT2RP2005344, | NT2RP2005453, | NT2RP2005555, | NT2RP2005767, |
|    | NT2RP2005853, | NT2RP2006043, | NT2RP2006393, | NT2RP2006436, | NT2RP2006441, | NT2RP2006467, |
| 25 | NT2RP2006534, | NT2RP2006565, | NT2RP3000348, | NT2RP3000359, | NT2RP3000366, | NT2RP3000403, |
|    | NT2RP3000418, | NT2RP3000441, | NT2RP3000561, | NT2RP3000759, | NT2RP3000826, | NT2RP3001007, |
|    | NT2RP3001096, | NT2RP3001126, | NT2RP3001355, | NT2RP3001396, | NT2RP3001449, | NT2RP3001490, |
|    | NT2RP3001679, | NT2RP3001727, | NT2RP3001752, | NT2RP3001777, | NT2RP3001782, | NT2RP3001799, |
|    | NT2RP3001854, | NT2RP3001989, | NT2RP3002142, | NT2RP3002248, | NT2RP3002343, | NT2RP3002484, |
| 30 | NT2RP3002529, | NT2RP3002549, | NT2RP3002628, | NT2RP3002687, | NT2RP3002688, | NT2RP3002810, |
|    | NT2RP3003032, | NT2RP3003139, | NT2RP3003193, | NT2RP3003203, | NT2RP3003204, | NT2RP3003210, |
|    | NT2RP3003212, | NT2RP3003264, | NT2RP3003282, | NT2RP3003500, | NT2RP3004041, | NT2RP3004215, |
|    | NT2RP4000147, | NT2RP4000259, | NT2RP4000360, | NT2RP4000448, | NT2RP4000524, | NT2RP4000588, |
|    | NT2RP4000879, | NT2RP4000907, | NT2RP4000989, | NT2RP4001079, | NT2RP4001150, | NT2RP4001219, |
| 35 | NT2RP4001260, | NT2RP4001274, | NT2RP4001353, | NT2RP4001547, | NT2RP4001677, | NT2RP4002052, |
|    | OVARC1000006, | OVARC1000092, | OVARC1000321, | OVARC1000384, | OVARC1000408, | OVARC1000414, |
|    | OVARC1000526, | OVARC1000526, | OVARC1000588, | OVARC1000679, | OVARC1000682, | OVARC1000769, |
|    | OVARC1000850, | OVARC1000862, | OVARC1000886, | OVARC1000984, | OVARC1001000, | OVARC1001004, |
|    | OVARC1001154, | OVARC1001170, | OVARC1001173, | OVARC1001200, | OVARC1001268, | OVARC1001376, |
| 40 | OVARC1001419, | OVARC1001425, | OVARC1001476, | OVARC1001480, | OVARC1001542, | OVARC1001873, |
|    | OVARC1001928, | OVARC1001987, | OVARC1002066, | OVARC1002082, | OVARC1002112, | OVARC1002127, |
|    | PLACE1000014, | PLACE1000048, | PLACE1000184, | PLACE1000185, | PLACE1000246, | PLACE1000292, |
|    | PLACE1000332, | PLACE1000347, | PLACE1000564, | PLACE1000656, | PLACE1000712, | PLACE1001000, |
|    | PLACE1001168, | PLACE1001185, | PLACE1001241, | PLACE1001294, | PLACE1001311, | PLACE1001395, |
| 45 | PLACE1001570, | PLACE1001608, | PLACE1001610, | PLACE1001716, | PLACE1001746, | PLACE1001817, |
|    | PLACE1001821, | PLACE1001844, | PLACE1001897, | PLACE1002066, | PLACE1002119, | PLACE1002157, |
|    | PLACE1002205, | PLACE1002256, | PLACE1002259, | PLACE1002399, | PLACE1002438, | PLACE1002474, |
|    | PLACE1002477, | PLACE1002500, | PLACE1002514, | PLACE1002578, | PLACE1002815, | PLACE1002851, |
|    | PLACE1002968, | PLACE1003108, | PLACE1003174, | PLACE1003200, | PLACE1003238, | PLACE1003256, |
| 50 | PLACE1003334, | PLACE1003342, | PLACE1003516, | PLACE1003521, | PLACE1003537, | PLACE1003592, |
|    | PLACE1003596, | PLACE1003723, | PLACE1003760, | PLACE1003771, | PLACE1003783, | PLACE1003795, |
|    | PLACE1003892, | PLACE1003968, | PLACE1004103, | PLACE1004256, | PLACE1004405, | PLACE1004460, |
|    | PLACE1004506, | PLACE1004629, | PLACE1004674, | PLACE1004813, | PLACE1004979, | PLACE1005066, |
|    | PLACE1005101, | PLACE1005102, | PLACE1005128, | PLACE1005181, | PLACE1005287, | PLACE1005305, |
| 55 | PLACE1005327, | PLACE1005477, | PLACE1005595, | PLACE1005603, | PLACE1005666, | PLACE1005804, |
|    | PLACE1005884, | PLACE1005934, | PLACE1006076, | PLACE1006119, | PLACE1006159, | PLACE1006164, |
|    | PLACE1006170, | PLACE1006382, | PLACE1006492, | PLACE1006629, | PLACE1006704, | PLACE1006731, |
|    | PLACE1006760, | PLACE1006779, | PLACE1006795, | PLACE1006805, | PLACE1006962, | PLACE1007045, |

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|    |  |               |               |               |               |               |
|----|--|---------------|---------------|---------------|---------------|---------------|
|    | PLACE1007111,  | PLACE1007282, | PLACE1007386, | PLACE1007416, | PLACE1007484, | PLACE1007544, |
|    | PLACE1007645,  | PLACE1007743, | PLACE1007746, | PLACE1007807, | PLACE1007858, | PLACE1008002, |
|    | PLACE1008181,  | PLACE1008273, | PLACE1008368, | PLACE1008405, | PLACE1008532, | PLACE1008568, |
|    | PLACE1008625,  | PLACE1008696, | PLACE1008867, | PLACE1009027, | PLACE1009039, | PLACE1009045, |
| 5  | PLACE1009110,  | PLACE1009298, | PLACE1009328, | PLACE1009581, | PLACE1009621, | PLACE1009622, |
|    | PLACE1009637,  | PLACE1009925, | PLACE1009935, | PLACE1010089, | PLACE1010106, | PLACE1010152, |
|    | PLACE1010274,  | PLACE1010491, | PLACE1010629, | PLACE1010630, | PLACE1010714, | PLACE1010739, |
|    | PLACE1010891,  | PLACE1010896, | PLACE1010925, | PLACE1010965, | PLACE1011026, | PLACE1011046, |
|    | PLACE1011214,  | PLACE1011399, | PLACE1011433, | PLACE1011492, | PLACE1011641, | PLACE1011649, |
| 10 | PLACE1011719,  | PLACE1011762, | PLACE1011858, | PLACE1011923, | PLACE2000014, | PLACE2000039, |
|    | PLACE2000216,  | PLACE2000302, | PLACE2000317, | PLACE2000342, | PLACE2000347, | PLACE2000379, |
|    | PLACE3000121,  | PLACE3000124, | PLACE3000160, | PLACE3000242, | PLACE3000271, | PLACE3000353, |
|    | PLACE3000362,  | PLACE3000365, | PLACE3000400, | PLACE3000401, | PLACE4000034, | PLACE4000089, |
|    | PLACE4000522,  | PLACE4000558, |               |               |               |               |
| 15 | SKNMC1000050,  | THYRO1000040, | THYRO1000197, | THYRO1000241, | THYRO1000327, | THYRO1000394, |
|    | THYRO1000488,  | THYRO1000501, | THYRO1000585, | THYRO1000596, | THYRO1000625, | THYRO1000805, |
|    | THYRO1000934,  | THYRO1001133, | THYRO1001134, | THYRO1001173, | THYRO1001213, | THYRO1001262, |
|    | THYRO1001290,  | THYRO1001721, | Y79AA1000037, | Y79AA1000800, | Y79AA1000976, | Y79AA1001078, |
|    | Y79AA1001228,  | Y79AA1001299, | Y79AA1001402, | Y79AA1001585, | Y79AA1001696, | Y79AA1001711, |
| 20 | Y79AA1001827,  | Y79AA1001875, | Y79AA1002027, | Y79AA1002211, | Y79AA1002234, |               |
|    | Y79AA1002258,  |               |               |               |               |               |
|    | <b>[0226]</b> Clones of which expression levels decrease by RA/inhibitor are as follows:                             |               |               |               |               |               |
|    | HEMBA1000012,  | HEMBA1000501, | HEMBA1000946, | HEMBA1003220, | HEMBA1003403, | HEMBA1003569, |
|    | HEMBA1003591,  | HEMBA1003926, | HEMBA1004168, | HEMBA1004507, | HEMBA1005009, | HEMBA1005296, |
| 25 | HEMBA1005528,  | HEMBA1005570, | HEMBA1006467, | HEMBA1006486, | HEMBA1006492, | HEMBA1007322, |
|    | HEMBA1000055,  | HEMBA1000244, | HEMBA1001665, | MAMMA1000684, | MAMMA1001139, | MAMMA1001743, |
|    | NT2RM1000257,  | NT2RM1000318, | NT2RM1000539, | NT2RM1000666, | NT2RM2000092, | NT2RM2000192, |
|    | NT2RM2000371,  | NT2RM2000594, | NT2RM4000511, | NT2RM4001140, | NT2RM4001754, | NT2RM4001905, |
|    | NT2RM4001940,  | NT2RM4002593, | NT2RP1000086, | NT2RP1000439, | NT2RP1001073, | NT2RP2000098, |
| 30 | NT2RP2000965,  | NT2RP2001397, | NT2RP2002047, | NT2RP2004226, | NT2RP2004396, | NT2RP2004655, |
|    | NT2RP2005126,  | NT2RP2005464, | NT2RP2005712, | NT2RP2005859, | NT2RP2005890, | NT2RP3000980, |
|    | NT2RP3001383,  | NT2RP3001621, | NT2RP3002081, | NT2RP3002181, | NT2RP3002244, | NT2RP3002590, |
|    | NT2RP3003059,  | NT2RP3004258, | NT2RP3004378, | NT2RP3004527, | NT2RP3004594, | NT2RP4001760, |
|    | NT2RP4001950,  | NT2RP4002047, | NT2RP4002408, | NT2RP5003459, | OVARC1000004, | OVARC1000035, |
| 35 | OVARC1000431,  | OVARC1001051, | OVARC1001129, | OVARC1001176, | OVARC1001261, | OVARC1001342, |
|    | OVARC1001942,  | OVARC1001943, | PLACE1002171, | PLACE1002465, | PLACE1003190, | PLACE1003375, |
|    | PLACE1004128,  | PLACE1005026, | PLACE1005876, | PLACE1005923, | PLACE1007257, | PLACE1007375, |
|    | PLACE1007507,  | PLACE1008941, | PLACE1010624, | PLACE1011090, | PLACE1011219, | THYRO1000270, |
|    | Y79AA1000346,  | Y79AA1001541, |               |               |               |               |
| 40 | <b>[0227]</b> Clones of which expression levels increase in the presence of both RA and RA/inhibitor are as follows: |               |               |               |               |               |
|    | HEMBA1000046,  | HEMBA1000307, | HEMBA1000504, | HEMBA1000588, | HEMBA1000682, | HEMBA1000726, |
|    | HEMBA1000943,  | HEMBA1001071, | HEMBA1001094, | HEMBA1001122, | HEMBA1001323, | HEMBA1001361, |
|    | HEMBA1001455,  | HEMBA1001869, | HEMBA1002084, | HEMBA1002583, | HEMBA1002628, | HEMBA1003096, |
|    | HEMBA1003142,  | HEMBA1003276, | HEMBA1003309, | HEMBA1003463, | HEMBA1003597, | HEMBA1003617, |
| 45 | HEMBA1003725,  | HEMBA1003803, | HEMBA1003879, | HEMBA1003989, | HEMBA1004000, | HEMBA1004015, |
|    | HEMBA1004024,  | HEMBA1004049, | HEMBA1004056, | HEMBA1004199, | HEMBA1004248, | HEMBA1004356, |
|    | HEMBA1004666,  | HEMBA1004770, | HEMBA1004803, | HEMBA1004923, | HEMBA1004934, | HEMBA1004954, |
|    | HEMBA1005039,  | HEMBA1005075, | HEMBA1005113, | HEMBA1005219, | HEMBA1005232, | HEMBA1005251, |
|    | HEMBA1005304,  | HEMBA1005367, | HEMBA1005410, | HEMBA1005411, | HEMBA1005548, | HEMBA1005581, |
| 50 | HEMBA1005631,  | HEMBA1005666, | HEMBA1005780, | HEMBA1006485, | HEMBA1006559, | HEMBA1006579, |
|    | HEMBA1006754,  | HEMBA1000059, | HEMBA1000575, | HEMBA1000709, | HEMBA1000848, | HEMBA1000985, |
|    | HEMBA1001117,  | HEMBA1001210, | HEMBA1001394, | HEMBA1001668, | HEMBA1001695, | HEMBA1002049, |
|    | HEMBA1002254,  | HEMBA1002266, | HEMBA1002371, | HEMBA1002614, | HEMBA1002617, | HEMBA1002697, |
|    | MAMMA1000241,  | MAMMA1000424, | MAMMA1000616, | MAMMA1000731, | MAMMA1000824, | MAMMA1001038, |
| 55 | MAMMA1001243,  | MAMMA1002769, | MAMMA1002871, | MAMMA1002941, |               |               |
|    | NT2RM1000725,  | NT2RM1000829, | NT2RM2000504, | NT2RM2000635, | NT2RM2000821, | NT2RM2001582, |
|    | NT2RM2001592,  | NT2RM2001632, | NT2RM2001648, | NT2RM2001671, | NT2RM2001695, | NT2RM2001879, |
|    | NT2RM4000290,  | NT2RM4000425, | NT2RM4000471, | NT2RM4000531, | NT2RM4000852, | NT2RM4001047, |

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NT2RM4001454, NT2RM4001557, NT2RM4001566, NT2RM4001582, NT2RM4001953, NT2RM4002409,  
NT2RM4002558, NT2RM4002594, NT2RP1000259, NT2RP1000418, NT2RP1000574, NT2RP1000782,  
NT2RP1000856, NT2RP1000943, NT2RP1000988, NT2RP1001013, NT2RP1001173, NT2RP1001546,  
NT2RP2000091, NT2RP2000208, NT2RP2000274, NT2RP2000329, NT2RP2000369, NT2RP2000634,  
5 NT2RP2000987, NT2RP2001277, NT2RP2001290, NT2RP2001366, NT2RP2001423, NT2RP2001436,  
NT2RP2001467, NT2RP2001506, NT2RP2001601, NT2RP2001926, NT2RP2001985, NT2RP2002041,  
NT2RP2002046, NT2RP2002078, NT2RP2002124, NT2RP2002193, NT2RP2002312, NT2RP2002316,  
NT2RP2002426, NT2RP2002457, NT2RP2002475, NT2RP2002520, NT2RP2002595, NT2RP2002672,  
NT2RP2002701, NT2RP2003099, NT2RP2003137, NT2RP2003206, NT2RP2003230, NT2RP2003272,  
10 NT2RP2003280, NT2RP2003393, NT2RP2003445, NT2RP2003456, NT2RP2003596, NT2RP2003871,  
NT2RP2004681, NT2RP2004743, NT2RP2004775, NT2RP2004933, NT2RP2004967, NT2RP2005003,  
NT2RP2005289, NT2RP2005453, NT2RP2005555, NT2RP2005767, NT2RP2005853, NT2RP2006043,  
NT2RP2006393, NT2RP2006436, NT2RP2006441, NT2RP2006467, NT2RP2006565, NT2RP3000359,  
NT2RP3000366, NT2RP3000403, NT2RP3000418, NT2RP3000441, NT2RP3000561, NT2RP3000759,  
15 NT2RP3001007, NT2RP3001126, NT2RP3001355, NT2RP3001396, NT2RP3001449, NT2RP3001490,  
NT2RP3001679, NT2RP3001752, NT2RP3001782, NT2RP3001799, NT2RP3001989, NT2RP3002142,  
NT2RP3002248, NT2RP3002343, NT2RP3002484, NT2RP3002529, NT2RP3002549, NT2RP3002687,  
NT2RP3003032, NT2RP3003139, NT2RP3003193, NT2RP3003204, NT2RP3003210, NT2RP3003212,  
NT2RP3003264, NT2RP3003282, NT2RP3003500, NT2RP3004041, NT2RP3004215, NT2RP4000147,  
20 NT2RP4000259, NT2RP4000360, NT2RP4000448, NT2RP4000524, NT2RP4001079, NT2RP4001150,  
NT2RP4001274, NT2RP4001353, NT2RP4001547, NT2RP4001677, OVARC1000092, OVARC1000321,  
OVARC1000384, OVARC1000408, OVARC1000414, OVARC1000520, OVARC1000526, OVARC1000588,  
OVARC1000679, OVARC1000682, OVARC1000769, OVARC1000862, OVARC1000984, OVARC1001000,  
OVARC1001004, OVARC1001154, OVARC1001170, OVARC1001173, OVARC1001200, OVARC1001268,  
25 OVARC1001376, OVARC1001476, OVARC1001542, OVARC1001873, OVARC1001987, OVARC1002082,  
PLACE1000014, PLACE1000048, PLACE1000184, PLACE1000246, PLACE1000292, PLACE1000332,  
PLACE1000347, PLACE1000712, PLACE1001000, PLACE1001294, PLACE1001311, PLACE1001395,  
PLACE1001570, PLACE1001608, PLACE1001610, PLACE1001746, PLACE1001821, PLACE1001844,  
PLACE1001897, PLACE1002066, PLACE1002119, PLACE1002157, PLACE1002205, PLACE1002256,  
30 PLACE1002259, PLACE1002438, PLACE1002474, PLACE1002477, PLACE1002500, PLACE1002578,  
PLACE1002815, PLACE1002851, PLACE1002968, PLACE1003108, PLACE1003174, PLACE1003200,  
PLACE1003256, PLACE1003334, PLACE1003516, PLACE1003592, PLACE1003723, PLACE1003760,  
PLACE1003771, PLACE1003795, PLACE1003892, PLACE1003968, PLACE1004103, PLACE1004256,  
PLACE1004629, PLACE1004979, PLACE1005102, PLACE1005128, PLACE1005305, PLACE1005477,  
35 PLACE1005666, PLACE1005804, PLACE1005934, PLACE1006076, PLACE1006119, PLACE1006159,  
PLACE1006164, PLACE1006170, PLACE1006492, PLACE1006629, PLACE1006704, PLACE1006760,  
PLACE1006795, PLACE1006962, PLACE1007045, PLACE1007386, PLACE1007416, PLACE1007484,  
PLACE1007544, PLACE1007645, PLACE1007743, PLACE1007807, PLACE1007858, PLACE1008002,  
PLACE1008273, PLACE1008368, PLACE1008532, PLACE1008568, PLACE1008696, PLACE1008867,  
40 PLACE1009027, PLACE1009039, PLACE1009298, PLACE1009328, PLACE1009621, PLACE1009637,  
PLACE1010089, PLACE1010106, PLACE1010152, PLACE1010491, PLACE1010630, PLACE1010739,  
PLACE1010896, PLACE1010925, PLACE1010965, PLACE1011046, PLACE1011214, PLACE1011433,  
PLACE1011719, PLACE1011762, PLACE2000039, PLACE2000216, PLACE2000302, PLACE2000342,  
PLACE2000347, PLACE2000379, PLACE3000121, PLACE3000124, PLACE3000242, PLACE3000271,  
45 PLACE3000362, PLACE3000365, PLACE3000400, PLACE3000401, PLACE4000034, PLACE4000089,  
PLACE4000522, PLACE4000558, THYRO1000197, THYRO1000241, THYRO1000327, THYRO1000394,  
THYRO1000488, THYRO1000585, THYRO1000625, THYRO1000805, THYRO1000934, THYRO1001133,  
THYRO1001173, THYRO1001213, THYRO1001262, THYRO1001290, Y79AA1000800, Y79AA1000976,  
Y79AA1001585, Y79AA1001696, Y79AA1001711, Y79AA1002258.  
50 **[0228]** Clones of which expression levels decrease in the presence of both RA and RA/inhibitor are as follows:  
HEMBA1000946, HEMBA1003569, HEMBA1005570, NT2RM1000666, NT2RM2000092, NT2RM2000594,  
NT2RM4001754, NT2RM4001905, NT2RP2002047, NT2RP3000980, NT2RP3002081, NT2RP3004594,  
NT2RP4001950, NT2RP4002408, OVARC1000431, OVARC1001942, OVARC1001943, PLACE1003190,  
PLACE1005923, PLACE1007257, PLACE1010624, Y79AA1000346.  
55 **[0229]** These are neurological disease-associated clones.

## Analysis of rheumatoid arthritis-associated genes

**[0230]** The onset of rheumatoid arthritis is thought to be involved in the proliferation of synovial cells covering inner surfaces of joint cavity and in inflammatory reaction resulted from the action of cytokines produced by leukocytes infiltrating into the joint synovial tissues (Rheumatism Information Center, <http://www.rheuma-net.or.jp/>). Recent studies have also revealed that tissue necrosis factor (TNF)- $\alpha$  participates in the onset (Current opinion in immunology 1999, 11, 657-662). When the expression of a gene exhibits responsiveness to the action of TNF on synovial cells, the gene is considered to be involved in rheumatoid arthritis.

**[0231]** A survey was performed for genes of which expression levels are varied in response to TNF- $\alpha$  in the primary cell culture of synovial tissue. The primary cultured cells of the smooth muscle (Cell Applications) were grown to be confluent in a culture dish, and then, human TNF- $\alpha$  (Boehringer-Mannheim) was added at a final concentration of 10 ng/ml thereto. The culture was further continued for 24 hours.

**[0232]** Total RNA was extracted from the cells by using S.N.A.P.<sup>(TM)</sup> Total RNA Isolation kit (Invitrogen). The labeling of probe used for hybridization was carried out by using 10  $\mu$ g of the total RNA according to the same methods as described above. The data were obtained in triplicate (n=3). The data of signal value representing gene expression level in the cells in the presence of TNF stimulation were compared with those in the absence of the stimulation. The comparison was performed by statistical treatment of two-sample t-test. Clones with significant difference in the signal distribution were selected under the condition of  $p < 0.05$ . In this analysis, clones with the difference can be statistically detected even when the signals were low.

Accordingly, clones with signal value of 40 or less were also assessed for the selection.

Table 352 shows the expression level of each cDNA in synovial cells cultured in the absence or presence of TNF.

**[0233]** Averaged signal values ( $M_1$ ,  $M_2$ ) and sample variances ( $s_1^2$ ,  $s_2^2$ ) for each gene were calculated in each of the cells, and then, the pooled sample variances  $s^2$  were obtained from the sample variances of the two types of cells to be compared. The t-values were determined according to the following formula:  $t = (M_1 - M_2) / s / (1/3 + 1/3)^{1/2}$ . When the determined t-value was greater than a t-value at P, which means the probability of significance level, of 0.05 or 0.01 in the t-distribution table with 4 degrees of freedom, the difference was judged to be found in the expression level of the gene between the two types of cells at  $p < 0.05$  or  $p < 0.01$ , respectively.

The tables also include the information of an increase (+) or decrease (-) in the expression level of a gene in the stimulated cells when the level is compared with that of unstimulated cells.

**[0234]** Clones of which expression levels are elevated by TNF- $\alpha$  are as follows:

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000046, HEMBA1000076, HEMBA1000111,  
 HEMBA1000168, HEMBA1000185, HEMBA1000201, HEMBA1000231, HEMBA1000243, HEMBA1000280,  
 HEMBA1000282, HEMBA1000304, HEMBA1000307, HEMBA1000327, HEMBA1000356, HEMBA1000376,  
 HEMBA1000387, HEMBA1000390, HEMBA1000418, HEMBA1000460, HEMBA1000491, HEMBA1000501,  
 HEMBA1000518, HEMBA1000519, HEMBA1000520, HEMBA1000531, HEMBA1000534, HEMBA1000542,  
 HEMBA1000545, HEMBA1000591, HEMBA1000592, HEMBA1000594, HEMBA1000636, HEMBA1000655,  
 HEMBA1000657, HEMBA1000673, HEMBA1000682, HEMBA1000686, HEMBA1000722, HEMBA1000726,  
 HEMBA1000827, HEMBA1000870, HEMBA1000918, HEMBA1000971, HEMBA1000974, HEMBA1000986,  
 HEMBA1001019, HEMBA1001043, HEMBA1001051, HEMBA1001059, HEMBA1001060, HEMBA1001071,  
 HEMBA1001080, HEMBA1001109, HEMBA1001140, HEMBA1001172, HEMBA1001196, HEMBA1001213,  
 HEMBA1001226, HEMBA1001281, HEMBA1001299, HEMBA1001302, HEMBA1001303, HEMBA1001323,  
 HEMBA1001326, HEMBA1001327, HEMBA1001330, HEMBA1001351, HEMBA1001407, HEMBA1001411,  
 HEMBA1001446, HEMBA1001454, HEMBA1001569, HEMBA1001647, HEMBA1001714, HEMBA1001800,  
 HEMBA1001804, HEMBA1001809, HEMBA1001888, HEMBA1001912, HEMBA1001921, HEMBA1001967,  
 HEMBA1002084, HEMBA1002161, HEMBA1002166, HEMBA1002241, HEMBA1002337, HEMBA1002363,  
 HEMBA1002389, HEMBA1002458, HEMBA1002460, HEMBA1002469, HEMBA1002538, HEMBA1002542,  
 HEMBA1002547, HEMBA1002609, HEMBA1002624, HEMBA1002659, HEMBA1002750, HEMBA1002770,  
 HEMBA1002779, HEMBA1002810, HEMBA1002816, HEMBA1002818, HEMBA1002850, HEMBA1002863,  
 HEMBA1003021, HEMBA1003033, HEMBA1003078, HEMBA1003166, HEMBA1003202, HEMBA1003204,  
 HEMBA1003229, HEMBA1003235, HEMBA1003276, HEMBA1003286, HEMBA1003296, HEMBA1003370,  
 HEMBA1003376, HEMBA1003403, HEMBA1003418, HEMBA1003433, HEMBA1003447, HEMBA1003560,  
 HEMBA1003569, HEMBA1003571, HEMBA1003591, HEMBA1003597, HEMBA1003598, HEMBA1003621,  
 HEMBA1003656, HEMBA1003662, HEMBA1003680, HEMBA1003715, HEMBA1003725, HEMBA1003729,  
 HEMBA1003733, HEMBA1003742, HEMBA1003773, HEMBA1003783, HEMBA1003950, HEMBA1004012,  
 HEMBA1004015, HEMBA1004048, HEMBA1004074, HEMBA1004086, HEMBA1004111, HEMBA1004131,  
 HEMBA1004202, HEMBA1004203, HEMBA1004207, HEMBA1004248, HEMBA1004274, HEMBA1004321,  
 HEMBA1004330, HEMBA1004356, HEMBA1004366, HEMBA1004405, HEMBA1004408, HEMBA1004429,  
 HEMBA1004499, HEMBA1004507, HEMBA1004509, HEMBA1004542, HEMBA1004596, HEMBA1004604,

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|    |               |               |               |               |               |               |
|----|---------------|---------------|---------------|---------------|---------------|---------------|
|    | HEMBA1004776, | HEMBA1004889, | HEMBA1004934, | HEMBA1004978, | HEMBA1005019, | HEMBA1005047, |
|    | HEMBA1005206, | HEMBA1005219, | HEMBA1005274, | HEMBA1005331, | HEMBA1005338, | HEMBA1005394, |
|    | HEMBA1005423, | HEMBA1005576, | HEMBA1005732, | HEMBA1005746, | HEMBA1006091, | HEMBA1006142, |
|    | HEMBA1006173, | HEMBA1006198, | HEMBA1006253, | HEMBA1006268, | HEMBA1006309, | HEMBA1006377, |
| 5  | HEMBA1006474, | HEMBA1006486, | HEMBA1006492, | HEMBA1006502, | HEMBA1006535, | HEMBA1006579, |
|    | HEMBA1006648, | HEMBA1006659, | HEMBA1006885, | HEMBA1006929, | HEMBA1006941, | HEMBA1007078, |
|    | HEMBA1007080, | HEMBA1007121, | HEMBA1007194, | HEMBA1007300, | HEMBA1007301, | HEMBA1007322, |
|    | HEMBB1000036, | HEMBB1000044, | HEMBB1000089, | HEMBB1000215, | HEMBB1000217, | HEMBB1000272, |
|    | HEMBB1000420, | HEMBB1000591, | HEMBB1000593, | HEMBB1000631, | HEMBB1000835, | HEMBB1000887, |
| 10 | HEMBB1000908, | HEMBB1000975, | HEMBB1000985, | HEMBB1001011, | HEMBB1001014, | HEMBB1001112, |
|    | HEMBB1001133, | HEMBB1001331, | HEMBB1001337, | HEMBB1001366, | HEMBB1001367, | HEMBB1001384, |
|    | HEMBB1001394, | HEMBB1001429, | HEMBB1001463, | HEMBB1001619, | HEMBB1001684, | HEMBB1001706, |
|    | HEMBB1001753, | HEMBB1001797, | HEMBB1001802, | HEMBB1001812, | HEMBB1001874, | HEMBB1001910, |
|    | HEMBB1001915, | HEMBB1001973, | HEMBB1001983, | HEMBB1001990, | HEMBB1002190, | HEMBB1002193, |
| 15 | HEMBB1002249, | HEMBB1002329, | HEMBB1002342, | HEMBB1002371, | HEMBB1002409, | HEMBB1002442, |
|    | HEMBB1002489, | HEMBB1002492, | HEMBB1002520, | HEMBB1002534, | HEMBB1002596, | HEMBB1002664, |
|    | HEMBB1002692, | HEMBB1002697, | HEMBB1002705, | MAMMA1000092, | MAMMA1000155, | MAMMA1000163, |
|    | MAMMA1000173, | MAMMA1000175, | MAMMA1000227, | MAMMA1000241, | MAMMA1000257, | MAMMA1000264, |
| 20 | MAMMA1000266, | MAMMA1000270, | MAMMA1000307, | MAMMA1000410, | MAMMA1000413, | MAMMA1000416, |
|    | MAMMA1000421, | MAMMA1000472, | MAMMA1000501, | MAMMA1000605, | MAMMA1000643, | MAMMA1000670, |
|    | MAMMA1000684, | MAMMA1000696, | MAMMA1000732, | MAMMA1000752, | MAMMA1000802, | MAMMA1000824, |
|    | MAMMA1000905, | MAMMA1000921, | MAMMA1000931, | MAMMA1000957, | MAMMA1000962, | MAMMA1000998, |
|    | MAMMA1001008, | MAMMA1001050, | MAMMA1001074, | MAMMA1001078, | MAMMA1001292, | MAMMA1001397, |
|    | MAMMA1001476, | MAMMA1001743, | MAMMA1001744, | MAMMA1001754, | MAMMA1001760, | MAMMA1001785, |
| 25 | MAMMA1001858, | MAMMA1001908, | MAMMA1002236, | MAMMA1002267, | MAMMA1002292, | MAMMA1002311, |
|    | MAMMA1002322, | MAMMA1002359, | MAMMA1002362, | MAMMA1002485, | MAMMA1002494, | MAMMA1002597, |
|    | MAMMA1002598, | MAMMA1002665, | MAMMA1002671, | MAMMA1002684, | MAMMA1002748, | MAMMA1002775, |
|    | MAMMA1002830, | MAMMA1002858, | MAMMA1002868, | MAMMA1002886, | MAMMA1002887, | MAMMA1002892, |
|    | MAMMA1002909, | MAMMA1002937, | MAMMA1002947, | MAMMA1002964, | MAMMA1002970, | MAMMA1003013, |
| 30 | MAMMA1003150, | NT2RM1000039, | NT2RM1000062, | NT2RM1000080, | NT2RM1000086, | NT2RM1000127, |
|    | NT2RM1000132, | NT2RM1000187, | NT2RM1000199, | NT2RM1000244, | NT2RM1000256, | NT2RM1000272, |
|    | NT2RM1000318, | NT2RM1000354, | NT2RM1000377, | NT2RM1000430, | NT2RM1000499, | NT2RM1000539, |
|    | NT2RM1000553, | NT2RM1000563, | NT2RM1000699, | NT2RM1000742, | NT2RM1000826, | NT2RM1000829, |
|    | NT2RM1000833, | NT2RM1000882, | NT2RM1000898, | NT2RM1000905, | NT2RM1001092, | NT2RM2000013, |
| 35 | NT2RM2000032, | NT2RM2000042, | NT2RM2000101, | NT2RM2000124, | NT2RM2000192, | NT2RM2000259, |
|    | NT2RM2000260, | NT2RM2000363, | NT2RM2000368, | NT2RM2000402, | NT2RM2000452, | NT2RM2000952, |
|    | NT2RM2001221, | NT2RM2002014, | NT2RM2002030, | NT2RM4000156, | NT2RM4000349, | NT2RM4000395, |
|    | NT2RM4000457, | NT2RM4000511, | NT2RM4000514, | NT2RM4000698, | NT2RM4000764, | NT2RM4001016, |
|    | NT2RM4001084, | NT2RM4001594, | NT2RM4001629, | NT2RM4001662, | NT2RM4001841, | NT2RM4002093, |
| 40 | NT2RM4002109, | NT2RM4002145, | NT2RM4002189, | NT2RM4002194, | NT2RM4002226, | NT2RP1000170, |
|    | NT2RP1000439, | NT2RP1000478, | NT2RP1000513, | NT2RP1000701, | NT2RP1000856, | NT2RP1001361, |
|    | NT2RP2000097, | NT2RP2000239, | NT2RP2000288, | NT2RP2000328, | NT2RP2000329, | NT2RP2000369, |
|    | NT2RP2000422, | NT2RP2000842, | NT2RP2000965, | NT2RP2001245, | NT2RP2001440, | NT2RP2001560, |
|    | NT2RP2001634, | NT2RP2001663, | NT2RP2001677, | NT2RP2001762, | NT2RP2002270, | NT2RP2002312, |
| 45 | NT2RP2002316, | NT2RP2002333, | NT2RP2002706, | NT2RP2002925, | NT2RP2002959, | NT2RP2002987, |
|    | NT2RP2003125, | NT2RP2003137, | NT2RP2003237, | NT2RP2003272, | NT2RP2003596, | NT2RP2003604, |
|    | NT2RP2003643, | NT2RP2003968, | NT2RP2003976, | NT2RP2004194, | NT2RP2004321, | NT2RP2005037, |
|    | NT2RP2005140, | NT2RP2005204, | NT2RP2005293, | NT2RP2005457, | NT2RP2005555, | NT2RP2005600, |
|    | NT2RP2005701, | NT2RP2005719, | NT2RP2005722, | NT2RP2005773, | NT2RP2005890, | NT2RP2006023, |
| 50 | NT2RP2006071, | NT2RP3000186, | NT2RP3000341, | NT2RP3000599, | NT2RP3000632, | NT2RP3000644, |
|    | NT2RP3000852, | NT2RP3000968, | NT2RP3001096, | NT2RP3001109, | NT2RP3001126, | NT2RP3001147, |
|    | NT2RP3001449, | NT2RP3001529, | NT2RP3001753, | NT2RP3001854, | NT2RP3001915, | NT2RP3001969, |
|    | NT2RP3002081, | NT2RP3002142, | NT2RP3002399, | NT2RP3002590, | NT2RP3002603, | NT2RP3002810, |
|    | NT2RP3002876, | NT2RP3003311, | NT2RP3003330, | NT2RP3003672, | NT2RP3004209, | NT2RP3004378, |
| 55 | NT2RP4000078, | NT2RP4000541, | NT2RP4000588, | NT2RP4001219, | NT2RP4001228, | NT2RP4001276, |
|    | NT2RP4001507, | NT2RP4002047, | NT2RP5003459, | NT2RP5003492, | OVARC1000085, | OVARC1000087, |
|    | OVARC1000106, | OVARC1000151, | OVARC1000198, | OVARC1000431, | OVARC1000440, | OVARC1000564, |
|    | OVARC1000605, | OVARC1000679, | OVARC1000883, | OVARC1000912, | OVARC1000960, | OVARC1000971, |



OVARC1001038, OVARC1001055, OVARC1001085, OVARC1001129, OVARC1001167, OVARC1001339,  
 OVARC1001425, OVARC1001745, OVARC1001762, OVARC1001766, OVARC1001942, OVARC1002044,  
 OVARC1002138, PLACE1000004, PLACE1000005, PLACE1000420, PLACE1000547, PLACE1000562,  
 PLACE1000653, PLACE1001168, PLACE1001311, PLACE1001377, PLACE1001920, PLACE1001983,  
 5 PLACE1002066, PLACE1002072, PLACE1002140, PLACE1002171, PLACE1002319, PLACE1002474,  
 PLACE1002499, PLACE1002532, PLACE1002665, PLACE1003025, PLACE1003145, PLACE1003361,  
 PLACE1003605, PLACE1003704, PLACE1003783, PLACE1003885, PLACE1004405, PLACE1004629,  
 PLACE1004686, PLACE1004930, PLACE1005066, PLACE1006077, PLACE1005630, PLACE1005876,  
 PLACE1006143, PLACE1006325, PLACE1006488, PLACE1006805, PLACE1006829, PLACE1007286,  
 10 PLACE1007858, PLACE1008201, PLACE1009045, PLACE1009113, PLACE1009621, PLACE1010106,  
 PLACE1010310, PLACE1010622, PLACE1010944, PLACE1010965, PLACE1011185, PLACE1011332,  
 PLACE1011635, PLACE1011646, PLACE1011725, PLACE2000014, PLACE2000264, PLACE2000394,  
 PLACE2000419, PLACE3000160, PLACE3000220, PLACE3000254, PLACE3000271, PLACE3000339,  
 PLACE3000341, PLACE3000350, PLACE3000353, PLACE3000401, PLACE4000300, SKNMC1000091,  
 15 THYRO1000855, THYRO1001559, Y79AA1000065, Y79AA1000202, Y79AA1000214, Y79AA1000346,  
 Y79AA1000784, Y79AA1000833, Y79AA1000968, Y79AA1001555, Y79AA1002220.

**[0235]** Clones of which expression levels decrease by TNF- $\alpha$  are as follows:

HEMBA1002150, HEMBB1000240, NT2RM2000469, NT2RM2000984, NT2RM2001688, \_ NT2RM4000290,  
 NT2RM4000496, NT2RM4000590, NT2RM4001047, NT2RM4001582, NT2RM4001611, NT2RM4001650,  
 20 NT2RM4002075, NT2RM4002128, NT2RP1000174, NT2RP1000243, NT2RP1000581, NT2RP1000688,  
 NT2RP1000767, NT2RP1000825, NT2RP1001185, NT2RP1001286, NT2RP1001432, NT2RP1001457,  
 NT2RP2000001, NT2RP2000248, NT2RP2000841, NT2RP2001813, NT2RP2002137, NT2RP2002928,  
 NT2RP2003517, NT2RP2003559, NT2RP2003564, NT2RP2004933, NT2RP2005038, NT2RP2006365,  
 NT2RP3000072, NT2RP3000320, NT2RP3000484, NT2RP3000980, NT2RP3001111, NT2RP3001420,  
 25 NT2RP3001495, NT2RP3002056, NT2RP3002057, NT2RP3002545, NT2RP3002713, NT2RP3002799,  
 NT2RP3002869, NT2RP3002953, NT2RP3002955, NT2RP3003282, NT2RP3003290, NT2RP3003384,  
 NT2RP3003385, NT2RP3003870, NT2RP3004207, NT2RP3004262, NT2RP3004527, NT2RP4000500,  
 NT2RP4000524, NT2RP4000787, NT2RP4000927, NT2RP4000955, NT2RP4000989, NT2RP4001442,  
 30 NT2RP4001638, NT2RP4001950, NT2RP4002888, NT2RP5003524, OVARC1001270, PLACE1000246,  
 PLACE1002816.

**[0236]** These are rheumatoid arthritis-associated clones.

#### Analysis of ultraviolet radiation damage-associated genes

35 **[0237]** It is known that ultraviolet rays give considerably adverse influence on the health. In recent years, there have  
 been significant risks of tissue damage by ultraviolet rays because of destruction of the ozone layer. Thus, ultraviolet  
 radiation has been recognized as a risk factor for skin diseases such as skin cancers (United States Environmental  
 Protection Agency: Ozone Depletion Home Page, <http://www.epa.gov/ozone/>). Genes of which expression levels are  
 40 varied in skin epidermal cells exposed to ultraviolet rays are considered to be associated with skin damage caused by  
 ultraviolet radiation.

**[0238]** After primary cultured skin fibroblast cells were irradiated with ultraviolet ray and were cultured, a survey was  
 performed for genes of which expression levels were varied depending on the irradiation of ultraviolet ray. First, after  
 cultured to be confluent, the primary cultured skin fibroblast cells (Cell Applications) were exposed to 10,000  $\mu\text{J}/\text{cm}^2$   
 of 254-nm ultraviolet light.

45 **[0239]** Messenger RNAs were, then, extracted by using a FastTrack™ 2.0 mRNA Isolation kit (Invitrogen Co.) from  
 the unexposed cells and from the cells that were exposed to the ultraviolet light and then cultured for 4 or 24 hours.  
 The labeling of the hybridization probe was carried out by using a 1.5  $\mu\text{g}$  of each mRNA in the same manner as  
 described above. The data were obtained in triplicate ( $n=3$ ). The hybridization signals were compared between the  
 cells exposed to the ultraviolet light and the unexposed cells. The comparison was preformed by statistical treatment  
 50 with two-sample t-test. Clones with significant differences in the signal distribution were selected under the condition  
 of  $p<0.05$ . In this analysis, even when the signal is lower than others, the difference in the signal values can be detected  
 statistically. Accordingly, clones with signal value of 40 or lower were also assessed for selection.

**[0240]** Tables 353-509 show the expression of each cDNA in skin-derived fibroblast cells exposed and unexposed  
 to ultraviolet light.

55 **[0241]** Averaged signal values ( $M_1$ ,  $M_2$ ) and sample variances ( $s_1^2$ ,  $s_2^2$ ) were calculated for each gene in each of  
 the cells, and then, the pooled sample variances  $s^2$  were obtained from the sample variances of the two types of cells  
 to be compared. The t values were determined according to the following formula:  $t=(M_1-M_2)/s/(1/3+1/3)^{1/2}$ . When the  
 determined t-value was greater than a t-value at P, which means the probability of significance level, of 0.05 or 0.01

in the t-distribution table with 4 degrees of freedom, the difference was judged to be found in the expression level of the gene between the two types of cells at  $p < 0.05$  or  $p < 0.01$ , respectively. The tables also include the information of an increase (+) or decrease (-) in the expression level of a gene in the exposed cells in comparison with that of unexposed cells.

5 **[0242]** The expression levels of the following clones were elevated 4 or 24 hours after the ultraviolet irradiation:  
 HEMBA1000542, HEMBA1001808, HEMBA1002177, HEMBA1003314, MAMMA1001874, NT2RM2001100,  
 NT2RP2005732, NT2RP3000592, NT2RP4000657, OVARC1000004, OVARC1001092, OVARC1001342,  
 PLACE1002816, NT2RM4001002, NT2RM4001813, NT2RM4002266, NT2RP2001174, NT2RP2001196,  
 NT2RP2005358, NT2RP3000690, NT2RP3001216, NT2RP3003464, PLACE1006382, THYRO1000070,  
 10 THYRO1001100, Y79AA1000342.

**[0243]** The expression levels of the following clones were decreased 4 or 24 hours after the ultraviolet irradiation:  
 HEMBA1000005, HEMBA1000150, HEMBA1000156, HEMBA1000158, HEMBA1000168, HEMBA1000231,  
 HEMBA1000304, HEMBA1000307, HEMBA1000333, HEMBA1000366, HEMBA1000369, HEMBA1000390,  
 HEMBA1000396, HEMBA1000418, HEMBA1000434, HEMBA1000464, HEMBA1000469, HEMBA1000490,  
 15 HEMBA1000504, HEMBA1000505, HEMBA1000557, HEMBA1000657, HEMBA1000673, HEMBA1000682,  
 HEMBA1000686, HEMBA1000727, HEMBA1000752, HEMBA1000851, HEMBA1000852, HEMBA1000870,  
 HEMBA1000872, HEMBA1001085, HEMBA1001121, HEMBA1001133, HEMBA1001235, HEMBA1001265,  
 HEMBA1001281, HEMBA1001289, HEMBA1001299, HEMBA1001303, HEMBA1001310, HEMBA1001323,  
 HEMBA1001595, HEMBA1001620, HEMBA1001640, HEMBA1001678, HEMBA1001712, HEMBA1001835,  
 20 HEMBA1001950, HEMBA1001987, HEMBA1002253, HEMBA1002321, HEMBA1002341, HEMBA1002419,  
 HEMBA1002679, HEMBA1002728, HEMBA1002818, HEMBA1002935, HEMBA1002999, HEMBA1003034,  
 HEMBA1003071, HEMBA1003098, HEMBA1003142, HEMBA1003175, HEMBA1003202, HEMBA1003212,  
 HEMBA1003220, HEMBA1003276, HEMBA1003373, HEMBA1003417, HEMBA1003447, HEMBA1003528,  
 HEMBA1003684, HEMBA1003799, HEMBA1003885, HEMBA1003989, HEMBA1004011, HEMBA1004055,  
 25 HEMBA1004133, HEMBA1004225, HEMBA1004272, HEMBA1004353, HEMBA1004631, HEMBA1004669,  
 HEMBA1004705, HEMBA1004753, HEMBA1004776, HEMBA1004803, HEMBA1004816, HEMBA1004900,  
 HEMBA1005047, HEMBA1005079, HEMBA1005101, HEMBA1005149, HEMBA1005152, HEMBA1005202,  
 HEMBA1005314, HEMBA1005372, HEMBA1005511, HEMBA1005513, HEMBA1005518, HEMBA1005570,  
 HEMBA1005577, HEMBA1005581, HEMBA1005588, HEMBA1005609, HEMBA1005632, HEMBA1005853,  
 30 HEMBA1006031, HEMBA1006035, HEMBA1006485, HEMBA1006486, HEMBA1006502, HEMBA1006696,  
 HEMBA1006789, HEMBA1006796, HEMBA1007085, HEMBA1007224, HEMBA1007301, HEMBA1007319,  
 HEMBA1007341, HEMBA1007342, HEMBB1000036, HEMBB1000037, HEMBB1000217, HEMBB1000266,  
 HEMBB1000317, HEMBB1000336, HEMBB1000354, HEMBB1000369, HEMBB1000399, HEMBB1000434,  
 HEMBB1000438, HEMBB1000592, HEMBB1000673, HEMBB1000789, HEMBB1000810, HEMBB1000883,  
 35 HEMBB1000887, HEMBB1001105, HEMBB1001182, HEMBB1001242, HEMBB1001267, HEMBB1001424,  
 HEMBB1001464, HEMBB1001531, HEMBB1001618, HEMBB1001996, HEMBB1002092, HEMBB1002139,  
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| 15 | NT2RP4001966, | NT2RP4002081, | NT2RP4002408, | NT2RP4002791, | NT2RP4002888, | NT2RP5003524, |
|    | NT2RP5003534, | OVARC1000013, | OVARC1000035, | OVARC1000087, | OVARC1000113, | OVARC1000139, |
|    | OVARC1000145, | OVARC1000209, | OVARC1000212, | OVARC1000408, | OVARC1000427, | OVARC1000466, |
|    | OVARC1000496, | OVARC1000533, | OVARC1000576, | OVARC1000640, | OVARC1000649, | OVARC1000682, |
|    | OVARC1000689, | OVARC1000771, | OVARC1000885, | OVARC1000890, | OVARC1000936, | OVARC1000964, |
| 20 | OVARC1001065, | OVARC1001068, | OVARC1001072, | OVARC1001107, | OVARC1001113, | OVARC1001154, |
|    | OVARC1001169, | OVARC1001176, | OVARC1001372, | OVARC1001391, | OVARC1001453, | OVARC1001476, |
|    | OVARC1001480, | OVARC1001547, | OVARC1001555, | OVARC1001610, | OVARC1001711, | OVARC1001713, |
|    | OVARC1001726, | OVARC1001766, | OVARC1001767, | OVARC1001768, | OVARC1001805, | OVARC1001809, |
|    | OVARC1001828, | OVARC1001846, | OVARC1001901, | OVARC1001943, | OVARC1002138, | OVARC1002156, |
| 25 | PLACE1000005, | PLACE1000007, | PLACE1000040, | PLACE1000048, | PLACE1000133, | PLACE1000214, |
|    | PLACE1000347, | PLACE1000374, | PLACE1000424, | PLACE1000492, | PLACE1000547, | PLACE1000564, |
|    | PLACE1000599, | PLACE1000653, | PLACE1000706, | PLACE1000748, | PLACE1000749, | PLACE1000755, |
|    | PLACE1000841, | PLACE1000849, | PLACE1000856, | PLACE1000931, | PLACE1000987, | PLACE1001015, |
|    | PLACE1001024, | PLACE1001054, | PLACE1001062, | PLACE1001118, | PLACE1001168, | PLACE1001238, |
| 30 | PLACE1001377, | PLACE1001383, | PLACE1001384, | PLACE1001399, | PLACE1001440, | PLACE1001503, |
|    | PLACE1001545, | PLACE1001611, | PLACE1001640, | PLACE1001691, | PLACE1001705, | PLACE1001740, |
|    | PLACE1001817, | PLACE1001844, | PLACE1001845, | PLACE1001869, | PLACE1001897, | PLACE1002004, |
|    | PLACE1002073, | PLACE1002140, | PLACE1002157, | PLACE1002171, | PLACE1002205, | PLACE1002213, |
|    | PLACE1002474, | PLACE1002500, | PLACE1002529, | PLACE1002537, | PLACE1002598, | PLACE1002655, |
| 35 | PLACE1002908, | PLACE1003045, | PLACE1003136, | PLACE1003174, | PLACE1003258, | PLACE1003296, |
|    | PLACE1003334, | PLACE1003342, | PLACE1003361, | PLACE1003366, | PLACE1003369, | PLACE1003420, |
|    | PLACE1003454, | PLACE1003553, | PLACE1003566, | PLACE1003583, | PLACE1003669, | PLACE1003711, |
|    | PLACE1003723, | PLACE1003738, | PLACE1003760, | PLACE1003762, | PLACE1003771, | PLACE1003783, |
|    | PLACE1003850, | PLACE1003858, | PLACE1003915, | PLACE1004128, | PLACE1004161, | PLACE1004183, |
| 40 | PLACE1004197, | PLACE1004302, | PLACE1004358, | PLACE1004437, | PLACE1004460, | PLACE1004471, |
|    | PLACE1004506, | PLACE1004518, | PLACE1004646, | PLACE1004722, | PLACE1004793, | PLACE1004804, |
|    | PLACE1004838, | PLACE1004868, | PLACE1004900, | PLACE1004902, | PLACE1004969, | PLACE1004979, |
|    | PLACE1005086, | PLACE1005162, | PLACE1005243, | PLACE1005266, | PLACE1005313, | PLACE1005584, |
|    | PLACE1005698, | PLACE1005727, | PLACE1005739, | PLACE1005851, | PLACE1005925, | PLACE1006196, |
| 45 | PLACE1006248, | PLACE1006262, | PLACE1006335, | PLACE1006360, | PLACE1006385, | PLACE1006412, |
|    | PLACE1006414, | PLACE1006445, | PLACE1006598, | PLACE1006629, | PLACE1006640, | PLACE1006792, |
|    | PLACE1006815, | PLACE1006901, | PLACE1006917, | PLACE1006962, | PLACE1007021, | PLACE1007045, |
|    | PLACE1007112, | PLACE1007226, | PLACE1007243, | PLACE1007454, | PLACE1007547, | PLACE1007598, |
|    | PLACE1007618, | PLACE1007645, | PLACE1007649, | PLACE1007706, | PLACE1007725, | PLACE1007746, |
| 50 | PLACE1007843, | PLACE1007877, | PLACE1007954, | PLACE1007969, | PLACE1008002, | PLACE1008095, |
|    | PLACE1008111, | PLACE1008132, | PLACE1008273, | PLACE1008275, | PLACE1008331, | PLACE1008356, |
|    | PLACE1008368, | PLACE1008402, | PLACE1008603, | PLACE1008650, | PLACE1008696, | PLACE1008757, |
|    | PLACE1008807, | PLACE1008867, | PLACE1008941, | PLACE1009020, | PLACE1009039, | PLACE1009158, |
|    | PLACE1009172, | PLACE1009190, | PLACE1009230, | PLACE1009319, | PLACE1009338, | PLACE1009375, |
| 55 | PLACE1009434, | PLACE1009613, | PLACE1009637, | PLACE1009659, | PLACE1009763, | PLACE1009845, |
|    | PLACE1009921, | PLACE1009971, | PLACE1009992, | PLACE1010023, | PLACE1010053, | PLACE1010069, |
|    | PLACE1010074, | PLACE1010181, | PLACE1010202, | PLACE1010231, | PLACE1010270, | PLACE1010274, |
|    | PLACE1010321, | PLACE1010329, | PLACE1010492, | PLACE1010522, | PLACE1010616, | PLACE1010624, |



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PLACE1010631, PLACE1010786, PLACE1011032, PLACE1011114, PLACE1011221, PLACE1011325,  
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 PLACE3000322, PLACE3000331, PLACE3000352, PLACE3000401, PLACE3000413, PLACE3000425,  
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 10 PLACE4000489, PLACE4000638, SKNMC1000013, THYRO1000017, THYRO1000026, THYRO1000034,  
 THYRO1000072, THYRO1000132, THYRO1000173, THYRO1000190, THYRO1000197, THYRO1000221,  
 THYRO1000253, THYRO1000270, THYRO1000279, THYRO1000327, THYRO1000394, THYRO1000438,  
 THYRO1000558, THYRO1000569, THYRO1000585, THYRO1000596, THYRO1000625, THYRO1000637,  
 THYRO1000676, THYRO1000734, THYRO1000777, THYRO1000783, THYRO1000805, THYRO1000843,  
 15 THYRO1000934, THYRO1001033, THYRO1001347, THYRO1001405, THYRO1001411, THYRO1001534,  
 THYRO1001573, THYRO1001584, THYRO1001602, THYRO1001605, THYRO1001772, THYRO1001854,  
 VESEN1000122, Y79AA1000037, Y79AA1000065, Y79AA1000181, Y79AA1000231, Y79AA1000349,  
 Y79AA1000355, Y79AA1000368, Y79AA1000538, Y79AA1000782, Y79AA1001023, Y79AA1001145,  
 Y79AA1001391, Y79AA1001541, Y79AA1001585, Y79AA1001705, Y79AA1001781, Y79AA1001923,  
 20 Y79AA1001963, Y79AA1002125, Y79AA1002229, Y79AA1002407, Y79AA1002487.

[0244] These clones are ultraviolet radiation damage-associated clones.

Table 12

25 Expression of each cDNA in human tissues (containing clones that are not described in  
 Examples.)

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| Clone name   | Heart    | Lung     | P.gland  | Thymus  | Brain    | Kidney   | Liver    | Spleen   |
|--------------|----------|----------|----------|---------|----------|----------|----------|----------|
| GAPDH(Cr1)   | 38.210   | 32.670   | 23.820   | 13.580  | 11.230   | 21.120   | 24.910   | 22.440   |
| B actin(Cr2) | 279.280  | 368.870  | 111.100  | 117.500 | 92.880   | 114.650  | 82.990   | 256.790  |
| ADRGL1000005 | 53.882   | 23.005   | 32.749   | 22.858  | 26.564   | 24.940   | 22.644   | 27.001   |
| ADRGL1000007 | 94.778   | 85.185   | 160.457  | 67.191  | 101.768  | 62.489   | 67.150   | 73.543   |
| ADRGL1000009 | 11.141   | 50.520   | 10.357   | 7.177   | 6.013    | 5.219    | 14.272   | 21.225   |
| ADRGL1000011 | 71.656   | 24.579   | 29.358   | 19.473  | 24.898   | 30.747   | 49.220   | 22.221   |
| ADRGL1000027 | 36.238   | 25.252   | 20.855   | 7.328   | 11.196   | 14.298   | 19.658   | 11.288   |
| ADRGL1000058 | 66.209   | 129.497  | 55.226   | 49.241  | 30.219   | 55.872   | 67.027   | 243.436  |
| ADRGL1000069 | 38.630   | 23.459   | 28.991   | 12.540  | 27.353   | 33.633   | 28.774   | 20.911   |
| ADRGL1000077 | 97.465   | 63.656   | 448.427  | 83.412  | 71.108   | 53.740   | 67.906   | 89.439   |
| ADRGL1000092 | 89.423   | 45.692   | 55.810   | 26.033  | 44.148   | 73.339   | 96.037   | 73.091   |
| ADRGL1000099 | 73.675   | 24.424   | 36.128   | 17.024  | 25.964   | 41.391   | 42.837   | 29.666   |
| ADRGL1000136 | 141.745  | 63.974   | 77.017   | 24.777  | 33.549   | 58.986   | 295.009  | 84.985   |
| ADRGL1000147 | 394.563  | 155.829  | 271.210  | 92.899  | 165.627  | 251.266  | 253.420  | 150.294  |
| ADRGL1000159 | 50.073   | 25.425   | 39.296   | 15.194  | 16.125   | 20.040   | 33.720   | 23.278   |
| ADRGL1000160 | 69.386   | 31.051   | 59.416   | 20.154  | 39.799   | 27.027   | 47.169   | 20.716   |
| ADRGL1000171 | 57.047   | 23.011   | 43.063   | 23.860  | 40.581   | 59.814   | 117.055  | 32.630   |
| ADRGL1000181 | 45.892   | 18.666   | 34.476   | 15.434  | 34.225   | 32.962   | 39.693   | 16.334   |
| BGGI11000015 | 153.242  | 42.337   | 92.865   | 41.003  | 45.168   | 88.524   | 85.990   | 73.392   |
| BGGI11000016 | 177.367  | 94.731   | 119.688  | 34.159  | 30.249   | 98.806   | 98.783   | 39.204   |
| BGGI11000017 | 84.712   | 32.614   | 38.131   | 20.878  | 18.769   | 32.340   | 39.666   | 20.750   |
| BGGI11000022 | 52.468   | 20.452   | 67.167   | 12.167  | 11.158   | 18.241   | 19.197   | 11.937   |
| BGGI11000031 | 30.008   | 17.072   | 40.883   | 12.585  | 13.313   | 15.525   | 16.757   | 13.406   |
| BGGI11000042 | 49.926   | 36.336   | 51.176   | 26.964  | 43.122   | 43.770   | 49.107   | 38.776   |
| BGGI11000046 | 31.618   | 26.472   | 34.182   | 31.854  | 12.650   | 25.784   | 18.430   | 25.385   |
| BNGH41000020 | 5031.103 | 2993.496 | 1444.841 | 537.162 | 5973.542 | 6029.124 | 8350.527 | 3649.144 |
| BNGH41000025 | 91.717   | 35.026   | 73.901   | 27.713  | 30.765   | 36.523   | 37.596   | 47.074   |
| BNGH41000026 | 176.757  | 77.439   | 98.345   | 35.807  | 56.991   | 91.310   | 75.797   | 70.241   |
| BNGH41000027 | 65.029   | 56.353   | 25.896   | 22.494  | 12.763   | 23.748   | 17.836   | 23.859   |
| BNGH41000035 | 148.779  | 66.776   | 119.727  | 56.576  | 60.996   | 96.959   | 72.461   | 64.458   |
| BNGH41000037 | 79.500   | 29.611   | 43.438   | 18.317  | 20.857   | 36.272   | 27.525   | 24.771   |
| BNGH41000042 | 224.484  | 110.084  | 168.448  | 104.351 | 102.259  | 125.323  | 86.783   | 122.959  |
| BNGH41000048 | 56.144   | 32.253   | 54.063   | 14.729  | 27.312   | 22.435   | 29.566   | 28.937   |
| BNGH41000056 | 67.258   | 18.694   | 30.075   | 15.602  | 10.072   | 20.735   | 16.100   | 7.642    |
| BNGH41000087 | 98.262   | 46.173   | 77.657   | 35.329  | 40.900   | 50.029   | 50.841   | 45.285   |
| BNGH41000091 | 50.895   | 16.985   | 28.392   | 10.147  | 5.469    | 22.794   | 10.725   | 12.410   |
| BNGH41000157 | 69.043   | 34.730   | 40.597   | 18.088  | 27.072   | 22.074   | 25.410   | 24.950   |
| BNGH41000169 | 44.850   | 21.770   | 28.655   | 11.403  | 25.991   | 28.509   | 25.634   | 25.843   |
| BNGH41000181 | 17.163   | 15.689   | 13.948   | 3.996   | 9.287    | 13.139   | 15.553   | 16.575   |
| BNGH41000198 | 81.510   | 36.250   | 60.860   | 20.585  | 26.929   | 35.751   | 31.695   | 28.325   |
| BNGH41000219 | 30.302   | 25.156   | 22.187   | 13.757  | 11.208   | 15.235   | 27.285   | 35.709   |
| BNGH41000229 | 252.790  | 65.948   | 93.499   | 51.108  | 92.555   | 101.245  | 96.716   | 78.266   |
| BNGH41000237 | 85.757   | 46.997   | 55.170   | 26.780  | 33.764   | 47.456   | 37.007   | 39.131   |
| BNGH41000238 | 17.744   | 36.938   | 42.360   | 14.922  | 35.749   | 42.848   | 39.238   | 13.241   |
| BNGH41000243 | 45.446   | 23.667   | 44.798   | 20.875  | 10.516   | 23.918   | 22.443   | 27.033   |
| BNGH41000270 | 60.889   | 18.651   | 29.618   | 10.724  | 15.979   | 12.351   | 19.152   | 22.314   |
| BRAWH1000004 | 43.673   | 28.539   | 7.640    | 11.388  | 19.198   | 14.903   | 32.353   | 23.777   |
| BRAWH1000018 | 59.409   | 17.941   | 102.270  | 17.107  | 709.078  | 25.732   | 24.214   | 24.767   |
| BRAWH1000021 | 104.772  | 29.951   | 51.142   | 21.042  | 1169.154 | 55.762   | 66.754   | 27.969   |
| BRAWH1000027 | 152.205  | 47.310   | 67.089   | 32.199  | 64.521   | 70.731   | 79.670   | 40.928   |
| BRAWH1000029 | 106.376  | 49.221   | 55.840   | 40.856  | 59.552   | 56.487   | 64.886   | 100.132  |
| BRAWH1000040 | 29.419   | 16.761   | 31.101   | 16.622  | 30.633   | 18.200   | 17.998   | 15.196   |
| BRAWH1000050 | 161.264  | 71.786   | 118.976  | 51.863  | 61.542   | 97.720   | 81.271   | 69.194   |
| BRAWH1000051 | 74.067   | 34.341   | 44.047   | 20.726  | 30.434   | 42.055   | 53.856   | 24.624   |
| BRAWH1000060 | 68.789   | 22.598   | 35.012   | 16.493  | 19.127   | 38.662   | 34.923   | 28.094   |
| BRAWH1000075 | 17.318   | 16.898   | 36.437   | 8.901   | 18.133   | 17.219   | 9.321    | 11.200   |
| BRAWH1000081 | 43.025   | 12.998   | 28.267   | 7.655   | 123.677  | 17.673   | 15.924   | 9.844    |
| BRAWH1000084 | 174.384  | 42.178   | 80.534   | 47.752  | 152.188  | 77.111   | 110.167  | 102.296  |
| BRAWH1000095 | 118.239  | 59.676   | 64.528   | 28.174  | 116.975  | 53.814   | 746.700  | 35.985   |
| BRAWH1000096 | 146.112  | 44.967   | 85.882   | 27.491  | 145.013  | 52.880   | 52.427   | 58.678   |
| BRAWH1000097 | 95.841   | 72.506   | 174.954  | 65.637  | 64.200   | 73.707   | 63.827   | 63.762   |
| BRAWH1000100 | 11.943   | 19.037   | 18.950   | 13.536  | 92.145   | 16.582   | 16.646   | 10.218   |
| BRAWH1000101 | 134.838  | 57.232   | 106.632  | 40.741  | 96.396   | 71.642   | 88.432   | 57.336   |

Table 13

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | BRAWH1000104 | 25.414  | 18.303  | 14.825  | 7.695   | 38.918  | 23.970  | 23.794  | 11.048  |
|    | BRAWH1000107 | 16.949  | 5.616   | 12.463  | 5.518   | 6.355   | 5.084   | 9.107   | 6.573   |
| 5  | BRAWH1000110 | 615.476 | 492.704 | 869.088 | 383.612 | 368.156 | 369.621 | 277.348 | 340.450 |
|    | BRAWH1000111 | 175.556 | 68.459  | 92.209  | 45.974  | 64.703  | 81.723  | 90.369  | 57.301  |
|    | BRAWH1000135 | 199.303 | 38.098  | 72.093  | 26.809  | 57.720  | 91.668  | 87.016  | 35.866  |
|    | BRAWH1000190 | 56.386  | 41.640  | 57.914  | 22.782  | 55.671  | 40.034  | 35.280  | 40.134  |
|    | HEMBA1000005 | 11.985  | 23.427  | 18.882  | 9.766   | 12.656  | 9.959   | 23.443  | 21.677  |
|    | HEMBA1000006 | 37.398  | 24.521  | 24.529  | 15.587  | 22.317  | 13.336  | 16.038  | 15.295  |
| 10 | HEMBA1000012 | 81.820  | 57.193  | 66.828  | 26.683  | 55.423  | 58.731  | 85.614  | 66.259  |
|    | HEMBA1000020 | 157.967 | 64.157  | 115.635 | 51.940  | 77.293  | 77.321  | 83.989  | 74.362  |
|    | HEMBA1000030 | 82.882  | 35.447  | 66.058  | 26.464  | 40.990  | 60.871  | 47.058  | 50.652  |
|    | HEMBA1000034 | 47.434  | 17.878  | 50.696  | 5.594   | 14.005  | 6.673   | 24.652  | 7.134   |
|    | HEMBA1000042 | 147.376 | 94.003  | 330.908 | 69.071  | 76.472  | 55.477  | 37.783  | 60.479  |
|    | HEMBA1000045 | 28.478  | 20.289  | 20.548  | 12.445  | 11.835  | 22.788  | 11.196  | 15.775  |
| 15 | HEMBA1000046 | 85.160  | 84.475  | 242.940 | 57.017  | 68.488  | 45.288  | 37.098  | 47.486  |
|    | HEMBA1000047 | 21.380  | 18.899  | 18.166  | 11.393  | 11.185  | 12.292  | 6.491   | 12.018  |
|    | HEMBA1000048 | 243.559 | 55.114  | 84.448  | 24.247  | 43.131  | 99.333  | 57.041  | 37.362  |
|    | HEMBA1000050 | 22.711  | 11.876  | 21.972  | 7.477   | 4.096   | 13.675  | 10.347  | 7.770   |
|    | HEMBA1000053 | 45.071  | 26.410  | 38.158  | 15.982  | 30.754  | 36.740  | 34.184  | 24.269  |
|    | HEMBA1000060 | 101.197 | 34.766  | 50.643  | 19.938  | 34.641  | 54.061  | 42.309  | 22.530  |
| 20 | HEMBA1000072 | 240.166 | 213.938 | 224.688 | 163.030 | 115.246 | 207.809 | 112.361 | 276.098 |
|    | HEMBA1000073 | 23.202  | 9.580   | 10.815  | 1.698   | 6.680   | 18.155  | 12.304  | 14.973  |
|    | HEMBA1000076 | 95.997  | 46.783  | 177.931 | 32.617  | 48.964  | 50.792  | 33.947  | 44.142  |
|    | HEMBA1000084 | 66.603  | 25.710  | 48.434  | 18.006  | 22.553  | 38.118  | 40.479  | 29.683  |
|    | HEMBA1000087 | 70.084  | 17.515  | 26.544  | 8.450   | 17.590  | 29.220  | 19.519  | 22.565  |
|    | HEMBA1000088 | 15.474  | 8.614   | 19.903  | 4.775   | 4.519   | 11.446  | 34.905  | 6.528   |
| 25 | HEMBA1000091 | 80.622  | 38.604  | 59.393  | 23.956  | 44.939  | 49.760  | 33.946  | 24.614  |
|    | HEMBA1000111 | 85.814  | 95.270  | 270.642 | 75.147  | 54.384  | 70.071  | 29.529  | 55.422  |
|    | HEMBA1000121 | 55.476  | 43.368  | 146.465 | 37.419  | 29.398  | 30.694  | 17.702  | 30.398  |
|    | HEMBA1000128 | 37.278  | 27.165  | 34.516  | 13.619  | 17.702  | 28.069  | 12.834  | 23.965  |
|    | HEMBA1000129 | 51.488  | 19.659  | 44.907  | 12.208  | 27.243  | 30.959  | 24.383  | 26.851  |
|    | HEMBA1000141 | 12.961  | 24.515  | 32.107  | 14.353  | 13.502  | 11.152  | 8.907   | 20.635  |
| 30 | HEMBA1000146 | 29.273  | 11.479  | 20.418  | 8.202   | 9.575   | 14.877  | 10.000  | 7.817   |
|    | HEMBA1000150 | 534.562 | 326.814 | 684.147 | 211.774 | 218.448 | 322.246 | 235.752 | 256.883 |
|    | HEMBA1000154 | 95.272  | 92.253  | 101.483 | 54.276  | 42.896  | 75.526  | 92.689  | 188.019 |
|    | HEMBA1000156 | 50.177  | 72.591  | 58.026  | 31.149  | 21.865  | 38.964  | 27.634  | 50.220  |
|    | HEMBA1000158 | 260.718 | 63.920  | 89.680  | 36.337  | 44.915  | 93.421  | 111.344 | 53.562  |
|    | HEMBA1000168 | 74.416  | 61.152  | 62.826  | 30.512  | 23.287  | 34.966  | 44.005  | 33.564  |
| 35 | HEMBA1000180 | 28.502  | 22.412  | 28.571  | 11.701  | 19.230  | 10.903  | 11.731  | 14.102  |
|    | HEMBA1000185 | 115.723 | 50.661  | 213.994 | 51.166  | 43.435  | 56.261  | 38.862  | 44.992  |
|    | HEMBA1000188 | 21.302  | 14.879  | 16.948  | 11.392  | 11.821  | 10.656  | 12.501  | 6.979   |
|    | HEMBA1000193 | 14.122  | 8.318   | 11.905  | 7.519   | 4.736   | 3.349   | 8.544   | 7.842   |
|    | HEMBA1000194 | 54.688  | 49.534  | 143.817 | 37.736  | 20.221  | 34.328  | 23.359  | 56.497  |
|    | HEMBA1000201 | 21.062  | 14.098  | 8.690   | 6.237   | 5.109   | 5.059   | 9.317   | 10.522  |
| 40 | HEMBA1000213 | 22.388  | 25.532  | 25.777  | 8.470   | 17.320  | 9.084   | 8.469   | 11.766  |
|    | HEMBA1000216 | 65.935  | 51.368  | 92.680  | 19.202  | 33.659  | 40.971  | 36.328  | 34.891  |
|    | HEMBA1000227 | 52.577  | 31.332  | 34.925  | 19.503  | 18.411  | 21.504  | 22.590  | 25.781  |
|    | HEMBA1000231 | 114.369 | 54.299  | 131.256 | 38.550  | 43.246  | 29.778  | 24.266  | 30.410  |
|    | HEMBA1000237 | 91.024  | 91.360  | 199.338 | 58.292  | 93.250  | 57.000  | 49.319  | 59.288  |
|    | HEMBA1000243 | 53.456  | 43.969  | 117.519 | 38.431  | 25.396  | 32.604  | 38.910  | 32.153  |
| 45 | HEMBA1000244 | 173.469 | 104.733 | 115.584 | 33.079  | 65.527  | 124.532 | 90.927  | 78.610  |
|    | HEMBA1000251 | 22.709  | 12.333  | 14.367  | 9.019   | 16.095  | 13.221  | 11.516  | 11.018  |
|    | HEMBA1000254 | 74.060  | 35.626  | 130.009 | 20.848  | 37.481  | 24.002  | 20.553  | 13.215  |
|    | HEMBA1000264 | 29.478  | 15.248  | 23.537  | 9.473   | 3.863   | 11.228  | 13.690  | 3.797   |
|    | HEMBA1000269 | 36.718  | 13.465  | 28.932  | 20.412  | 9.705   | 12.833  | 7.348   | 24.793  |
|    | HEMBA1000275 | 66.201  | 39.367  | 84.077  | 38.846  | 77.871  | 49.267  | 36.211  | 38.871  |
|    | HEMBA1000280 | 33.299  | 36.073  | 54.357  | 24.720  | 38.017  | 35.751  | 21.696  | 30.785  |
| 50 | HEMBA1000282 | 93.815  | 121.083 | 171.037 | 93.484  | 123.971 | 70.384  | 56.916  | 92.414  |
|    | HEMBA1000287 | 12.439  | 24.935  | 29.793  | 10.840  | 37.925  | 9.632   | 2.866   | 7.311   |
|    | HEMBA1000288 | 45.269  | 30.009  | 145.363 | 25.471  | 9.769   | 16.272  | 9.701   | 15.510  |
|    | HEMBA1000290 | 14.803  | 5.750   | 10.615  | 5.725   | 2.559   | 8.602   | 8.358   | 9.224   |
|    | HEMBA1000296 | 27.085  | 22.625  | 21.195  | 9.790   | 16.909  | 12.402  | 15.289  | 17.159  |
|    | HEMBA1000300 | 98.491  | 119.119 | 304.884 | 73.660  | 85.595  | 48.175  | 43.496  | 66.547  |
| 55 | HEMBA1000302 | 23.840  | 15.442  | 27.722  | 16.143  | 13.081  | 13.879  | 8.259   | 12.569  |

Table 14

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1000303 | 129.286 | 51.013  | 88.777  | 32.513  | 50.462  | 82.994  | 44.818  | 49.271  |
|    | HEMBA1000304 | 112.022 | 67.470  | 328.677 | 54.678  | 79.305  | 43.526  | 38.469  | 55.762  |
| 5  | HEMBA1000307 | 14.054  | 22.013  | 31.964  | 13.167  | 15.571  | 7.974   | 10.014  | 8.685   |
|    | HEMBA1000312 | 97.082  | 69.330  | 183.923 | 45.322  | 45.087  | 52.968  | 37.741  | 38.246  |
|    | HEMBA1000318 | 16.164  | 16.264  | 18.766  | 11.688  | 3.620   | 10.732  | 8.295   | 14.675  |
|    | HEMBA1000327 | 29.404  | 59.618  | 81.347  | 41.731  | 85.004  | 48.526  | 49.421  | 46.866  |
|    | HEMBA1000333 | 16.964  | 13.930  | 14.530  | 1.872   | 5.776   | 1.571   | 0.392   | 3.743   |
|    | HEMBA1000338 | 121.878 | 62.572  | 348.751 | 55.463  | 49.114  | 38.561  | 30.698  | 40.644  |
| 10 | HEMBA1000343 | 25.229  | 29.781  | 46.395  | 20.673  | 5.872   | 16.551  | 10.139  | 14.088  |
|    | HEMBA1000349 | 23.061  | 12.586  | 31.755  | 7.020   | 17.658  | 11.622  | 14.807  | 15.611  |
|    | HEMBA1000351 | 92.847  | 57.338  | 196.577 | 41.762  | 37.094  | 35.370  | 27.645  | 28.615  |
|    | HEMBA1000355 | 85.210  | 38.388  | 64.299  | 18.101  | 33.114  | 43.511  | 37.808  | 26.628  |
|    | HEMBA1000356 | 60.438  | 38.786  | 62.442  | 20.784  | 17.694  | 38.058  | 40.431  | 28.899  |
|    | HEMBA1000357 | 84.898  | 55.990  | 206.803 | 54.151  | 42.793  | 39.432  | 26.076  | 44.579  |
| 15 | HEMBA1000366 | 47.131  | 42.031  | 90.450  | 27.056  | 20.718  | 23.499  | 14.632  | 23.547  |
|    | HEMBA1000369 | 71.428  | 40.685  | 54.384  | 17.613  | 21.422  | 34.985  | 37.622  | 36.900  |
|    | HEMBA1000370 | 16.354  | 14.949  | 22.988  | 7.916   | 18.390  | 15.359  | 13.426  | 6.647   |
|    | HEMBA1000376 | 80.183  | 75.300  | 201.705 | 55.266  | 66.687  | 44.612  | 55.386  | 56.070  |
|    | HEMBA1000387 | 100.497 | 129.367 | 351.196 | 80.257  | 104.250 | 74.007  | 57.619  | 79.876  |
|    | HEMBA1000389 | 69.342  | 34.021  | 71.118  | 22.346  | 27.319  | 47.936  | 53.026  | 34.161  |
| 20 | HEMBA1000390 | 19.206  | 25.788  | 21.028  | 12.401  | 18.372  | 13.751  | 16.243  | 15.036  |
|    | HEMBA1000392 | 19.400  | 22.884  | 44.179  | 8.776   | 11.742  | 10.594  | 12.266  | 12.463  |
|    | HEMBA1000396 | 75.409  | 50.195  | 81.870  | 27.979  | 30.393  | 31.235  | 17.771  | 19.584  |
|    | HEMBA1000411 | 35.966  | 24.397  | 25.987  | 10.341  | 31.398  | 31.214  | 50.056  | 18.580  |
|    | HEMBA1000418 | 8.165   | 10.778  | 14.987  | 4.031   | 12.495  | 7.913   | 6.363   | 2.306   |
|    | HEMBA1000422 | 93.699  | 38.329  | 85.266  | 39.826  | 45.992  | 44.729  | 42.886  | 34.308  |
| 25 | HEMBA1000428 | 51.017  | 30.690  | 79.229  | 26.579  | 24.840  | 17.767  | 18.424  | 18.608  |
|    | HEMBA1000434 | 1.747   | 3.214   | 11.346  | 1.210   | 1.602   | 2.927   | 2.788   | 2.756   |
|    | HEMBA1000442 | 21.750  | 7.698   | 16.227  | 7.252   | 3.336   | 17.969  | 11.723  | 10.645  |
|    | HEMBA1000443 | 67.291  | 35.910  | 34.775  | 26.420  | 16.860  | 31.691  | 47.856  | 102.287 |
|    | HEMBA1000446 | 236.986 | 69.546  | 90.283  | 32.233  | 34.107  | 119.377 | 108.645 | 60.266  |
|    | HEMBA1000456 | 95.368  | 37.560  | 63.451  | 22.640  | 41.092  | 65.256  | 62.972  | 43.493  |
| 30 | HEMBA1000459 | 28.924  | 35.333  | 74.945  | 20.475  | 25.324  | 26.253  | 13.654  | 31.317  |
|    | HEMBA1000460 | 18.649  | 27.246  | 21.973  | 9.613   | 15.230  | 14.091  | 9.746   | 16.955  |
|    | HEMBA1000462 | 220.184 | 42.636  | 96.490  | 31.332  | 83.626  | 109.503 | 92.971  | 62.126  |
|    | HEMBA1000464 | 34.277  | 15.137  | 27.210  | 10.862  | 15.595  | 20.793  | 16.716  | 16.539  |
|    | HEMBA1000468 | 41.755  | 41.852  | 68.356  | 10.400  | 23.452  | 43.909  | 24.048  | 22.968  |
|    | HEMBA1000469 | 68.229  | 71.011  | 256.705 | 47.636  | 29.853  | 34.188  | 22.568  | 39.190  |
|    | HEMBA1000477 | 185.220 | 47.546  | 102.939 | 26.276  | 40.188  | 95.247  | 52.454  | 28.109  |
| 35 | HEMBA1000481 | 47.276  | 37.528  | 24.407  | 17.115  | 24.182  | 29.826  | 20.717  | 25.819  |
|    | HEMBA1000488 | 96.226  | 31.249  | 71.522  | 21.667  | 27.715  | 44.499  | 53.708  | 33.306  |
|    | HEMBA1000490 | 29.915  | 13.747  | 32.568  | 14.002  | 12.056  | 6.900   | 11.274  | 7.559   |
|    | HEMBA1000491 | 80.198  | 22.903  | 47.786  | 20.675  | 32.551  | 52.682  | 37.109  | 28.282  |
|    | HEMBA1000498 | 191.186 | 112.767 | 454.998 | 88.614  | 102.997 | 82.927  | 53.205  | 120.837 |
|    | HEMBA1000501 | 57.318  | 55.923  | 180.158 | 44.170  | 27.291  | 34.954  | 18.532  | 34.117  |
| 40 | HEMBA1000504 | 1.033   | 5.893   | 7.152   | 1.726   | 0.520   | 2.245   | 2.551   | 1.091   |
|    | HEMBA1000505 | 55.746  | 36.631  | 48.155  | 21.562  | 14.691  | 34.729  | 19.508  | 31.925  |
|    | HEMBA1000507 | 204.165 | 114.530 | 305.249 | 86.138  | 81.505  | 97.289  | 230.331 | 95.150  |
|    | HEMBA1000508 | 205.724 | 105.067 | 309.791 | 72.709  | 70.180  | 77.388  | 63.849  | 45.940  |
|    | HEMBA1000518 | 39.157  | 29.100  | 31.505  | 16.650  | 14.796  | 15.847  | 24.729  | 17.601  |
| 45 | HEMBA1000519 | 166.937 | 142.676 | 468.435 | 148.478 | 123.978 | 128.646 | 85.670  | 111.078 |
|    | HEMBA1000520 | 0.000   | 0.000   | 0.000   | 10.341  | 10.619  | 1.488   | 9.513   | 9.395   |
|    | HEMBA1000523 | 38.708  | 22.090  | 40.875  | 13.852  | 21.603  | 32.384  | 20.478  | 21.422  |
|    | HEMBA1000531 | 21.874  | 34.044  | 40.027  | 12.264  | 11.034  | 29.775  | 20.421  | 12.540  |
|    | HEMBA1000534 | 0.000   | 0.000   | 0.000   | 34.434  | 48.940  | 25.365  | 41.242  | 72.583  |
|    | HEMBA1000538 | 0.000   | 0.000   | 0.000   | 17.833  | 19.981  | 17.606  | 26.698  | 23.904  |
|    | HEMBA1000540 | 21.974  | 47.343  | 33.145  | 42.629  | 27.059  | 33.931  | 16.639  | 31.893  |
| 50 | HEMBA1000542 | 64.656  | 33.152  | 58.093  | 30.174  | 35.278  | 55.508  | 47.917  | 47.623  |
|    | HEMBA1000545 | 148.870 | 136.401 | 48.802  | 8.499   | 12.534  | 7.119   | 25.484  | 15.094  |
|    | HEMBA1000547 | 14.825  | 20.199  | 32.694  | 7.058   | 22.359  | 12.020  | 13.535  | 20.227  |
|    | HEMBA1000551 | 163.806 | 171.089 | 543.876 | 131.764 | 115.775 | 116.646 | 69.596  | 152.516 |
|    | HEMBA1000555 | 10.531  | 20.199  | 25.801  | 24.488  | 14.071  | 15.431  | 5.986   | 10.933  |
|    | HEMBA1000557 | 80.051  | 48.396  | 168.724 | 37.150  | 32.863  | 31.872  | 22.800  | 30.926  |
| 55 | HEMBA1000561 | 56.992  | 22.797  | 51.047  | 10.187  | 16.301  | 34.904  | 24.661  | 22.470  |

Table 15

|    |              |         |         |         |        |         |        |        |        |
|----|--------------|---------|---------|---------|--------|---------|--------|--------|--------|
|    | HEMBA1000563 | 9.473   | 11.545  | 18.205  | 6.139  | 12.689  | 10.132 | 7.939  | 14.253 |
|    | HEMBA1000567 | 41.385  | 38.483  | 27.881  | 32.207 | 15.544  | 26.052 | 15.086 | 86.601 |
| 5  | HEMBA1000568 | 44.686  | 33.379  | 126.524 | 26.300 | 22.533  | 17.402 | 26.970 | 18.707 |
|    | HEMBA1000569 | 58.184  | 27.187  | 41.012  | 21.787 | 12.925  | 36.191 | 33.944 | 23.225 |
|    | HEMBA1000575 | 155.833 | 155.759 | 434.526 | 92.140 | 79.143  | 69.949 | 59.928 | 71.189 |
|    | HEMBA1000588 | 41.087  | 26.072  | 31.610  | 14.580 | 18.024  | 18.458 | 23.553 | 13.279 |
|    | HEMBA1000590 | 29.693  | 17.090  | 23.618  | 7.069  | 6.633   | 16.725 | 20.068 | 13.042 |
|    | HEMBA1000591 | 106.772 | 54.874  | 98.079  | 34.099 | 31.776  | 57.170 | 48.488 | 32.766 |
| 10 | HEMBA1000592 | 7.408   | 10.031  | 9.435   | 9.551  | 8.209   | 5.142  | 7.480  | 10.319 |
|    | HEMBA1000594 | 18.401  | 11.048  | 22.547  | 15.327 | 9.596   | 12.099 | 8.751  | 6.852  |
|    | HEMBA1000604 | 96.047  | 78.462  | 146.030 | 49.571 | 36.099  | 70.815 | 41.797 | 47.748 |
|    | HEMBA1000607 | 46.819  | 15.606  | 46.037  | 9.438  | 19.149  | 21.038 | 17.317 | 25.404 |
|    | HEMBA1000608 | 8.985   | 3.040   | 6.705   | 0.000  | 7.378   | 4.453  | 0.000  | 5.544  |
|    | HEMBA1000622 | 45.570  | 55.746  | 113.666 | 40.310 | 18.167  | 19.390 | 15.895 | 29.149 |
| 15 | HEMBA1000634 | 126.532 | 49.146  | 138.073 | 29.094 | 95.787  | 79.662 | 60.271 | 71.657 |
|    | HEMBA1000636 | 151.899 | 51.270  | 126.200 | 39.161 | 51.864  | 62.611 | 54.056 | 39.415 |
|    | HEMBA1000637 | 33.241  | 23.587  | 39.380  | 18.047 | 16.265  | 30.075 | 28.226 | 24.559 |
|    | HEMBA1000655 | 80.165  | 70.766  | 219.283 | 58.901 | 61.320  | 45.821 | 40.741 | 62.639 |
|    | HEMBA1000657 | 60.961  | 31.993  | 41.401  | 18.008 | 30.565  | 35.201 | 35.611 | 42.178 |
|    | HEMBA1000662 | 8.600   | 8.490   | 11.263  | 5.475  | 2.201   | 6.140  | 1.557  | 2.504  |
| 20 | HEMBA1000664 | 14.358  | 5.082   | 3.637   | 2.670  | 3.516   | 4.913  | 3.094  | 3.579  |
|    | HEMBA1000671 | 11.588  | 15.473  | 26.067  | 17.940 | 8.865   | 7.647  | 10.779 | 21.196 |
|    | HEMBA1000673 | 73.174  | 77.410  | 193.253 | 46.051 | 34.388  | 33.975 | 25.896 | 31.646 |
|    | HEMBA1000675 | 7.666   | 12.047  | 22.123  | 5.764  | 42.036  | 15.788 | 10.254 | 15.555 |
|    | HEMBA1000678 | 7.453   | 12.314  | 21.083  | 12.174 | 14.897  | 12.628 | 6.969  | 6.584  |
|    | HEMBA1000682 | 118.965 | 125.696 | 255.731 | 86.894 | 61.443  | 66.299 | 49.060 | 82.939 |
| 25 | HEMBA1000686 | 25.079  | 17.463  | 23.126  | 12.722 | 10.282  | 13.835 | 21.393 | 18.154 |
|    | HEMBA1000702 | 206.683 | 94.357  | 266.585 | 62.386 | 79.930  | 90.914 | 98.397 | 60.559 |
|    | HEMBA1000705 | 25.430  | 25.862  | 47.190  | 13.191 | 19.599  | 26.364 | 25.013 | 18.833 |
|    | HEMBA1000713 | 56.893  | 25.288  | 70.751  | 17.660 | 24.138  | 23.311 | 21.805 | 21.736 |
|    | HEMBA1000718 | 50.149  | 43.869  | 128.515 | 28.289 | 23.213  | 18.458 | 10.003 | 17.419 |
|    | HEMBA1000719 | 37.969  | 17.467  | 28.513  | 12.147 | 12.768  | 22.643 | 14.744 | 14.432 |
| 30 | HEMBA1000722 | 15.150  | 9.762   | 14.699  | 6.768  | 11.726  | 12.080 | 5.907  | 9.953  |
|    | HEMBA1000726 | 159.817 | 111.276 | 463.937 | 91.448 | 109.093 | 58.587 | 46.517 | 70.087 |
|    | HEMBA1000727 | 22.867  | 26.803  | 28.886  | 21.475 | 11.199  | 14.966 | 8.634  | 30.401 |
|    | HEMBA1000732 | 28.630  | 11.011  | 12.790  | 4.617  | 3.548   | 13.325 | 19.978 | 13.472 |
|    | HEMBA1000736 | 24.568  | 21.982  | 21.410  | 7.431  | 11.376  | 41.026 | 31.698 | 16.801 |
|    | HEMBA1000743 | 0.741   | 4.467   | 1.793   | 1.637  | 1.227   | 3.642  | 4.563  | 3.368  |
| 35 | HEMBA1000745 | 8.930   | 7.067   | 14.546  | 3.314  | 10.067  | 5.403  | 9.225  | 6.085  |
|    | HEMBA1000747 | 21.442  | 12.487  | 25.662  | 17.081 | 5.384   | 10.287 | 9.865  | 8.267  |
|    | HEMBA1000748 | 22.924  | 14.885  | 35.721  | 12.634 | 3.045   | 11.508 | 4.110  | 11.756 |
|    | HEMBA1000749 | 67.267  | 50.826  | 159.211 | 43.879 | 20.345  | 29.613 | 19.447 | 31.693 |
|    | HEMBA1000752 | 54.929  | 35.778  | 162.005 | 28.209 | 31.540  | 25.132 | 15.650 | 20.776 |
|    | HEMBA1000753 | 120.889 | 83.878  | 155.892 | 48.092 | 54.307  | 53.238 | 38.941 | 39.331 |
| 40 | HEMBA1000757 | 20.234  | 22.592  | 52.608  | 29.935 | 23.071  | 24.503 | 14.548 | 43.779 |
|    | HEMBA1000760 | 12.599  | 38.665  | 19.973  | 15.800 | 30.188  | 14.155 | 10.570 | 39.229 |
|    | HEMBA1000769 | 114.956 | 74.924  | 304.424 | 66.815 | 39.365  | 48.405 | 39.918 | 55.931 |
|    | HEMBA1000773 | 2.162   | 5.360   | 11.883  | 4.445  | 0.965   | 3.158  | 3.956  | 2.663  |
|    | HEMBA1000774 | 128.563 | 115.732 | 330.111 | 84.461 | 69.618  | 59.363 | 42.656 | 56.152 |
|    | HEMBA1000780 | 6.850   | 7.130   | 24.176  | 6.924  | 6.903   | 6.546  | 6.667  | 9.576  |
| 45 | HEMBA1000783 | 8.127   | 5.076   | 13.701  | 3.276  | 8.863   | 6.241  | 5.435  | 4.429  |
|    | HEMBA1000791 | 41.433  | 51.546  | 108.542 | 29.633 | 42.735  | 44.515 | 43.187 | 40.856 |
|    | HEMBA1000793 | 108.761 | 30.885  | 54.568  | 18.670 | 31.512  | 54.669 | 45.458 | 34.788 |
|    | HEMBA1000802 | 15.062  | 11.125  | 9.052   | 10.300 | 11.505  | 12.950 | 15.354 | 16.952 |
|    | HEMBA1000813 | 106.763 | 52.683  | 69.701  | 32.507 | 44.369  | 65.862 | 59.842 | 56.799 |
|    | HEMBA1000817 | 19.480  | 7.070   | 17.915  | 4.016  | 15.239  | 18.434 | 11.273 | 8.079  |
| 50 | HEMBA1000822 | 9.520   | 10.358  | 15.760  | 7.218  | 8.704   | 11.185 | 6.639  | 4.662  |
|    | HEMBA1000827 | 96.001  | 12.420  | 24.041  | 8.305  | 24.000  | 6.709  | 3.488  | 8.591  |
|    | HEMBA1000833 | 53.675  | 28.970  | 35.897  | 14.604 | 26.383  | 29.036 | 20.591 | 14.341 |
|    | HEMBA1000835 | 74.696  | 67.353  | 83.737  | 34.349 | 42.834  | 61.145 | 66.784 | 52.015 |
|    | HEMBA1000843 | 74.227  | 54.197  | 92.042  | 37.825 | 58.573  | 98.943 | 87.569 | 55.077 |
|    | HEMBA1000851 | 23.913  | 14.070  | 13.081  | 6.847  | 8.634   | 12.419 | 19.200 | 22.286 |
| 55 | HEMBA1000852 | 56.702  | 54.074  | 105.085 | 31.127 | 34.200  | 31.843 | 28.843 | 30.311 |
|    | HEMBA1000867 | 15.548  | 10.247  | 11.912  | 6.256  | 1.227   | 12.374 | 8.518  | 5.611  |

Table 16

|    |              |         |         |         |         |         |         |        |         |
|----|--------------|---------|---------|---------|---------|---------|---------|--------|---------|
|    | HEMBA1000869 | 19.696  | 18.785  | 34.039  | 15.061  | 6.930   | 13.298  | 14.305 | 14.712  |
|    | HEMBA1000870 | 64.189  | 38.246  | 44.665  | 12.647  | 23.970  | 41.195  | 21.911 | 17.508  |
| 5  | HEMBA1000872 | 46.848  | 46.546  | 86.933  | 36.087  | 40.608  | 42.532  | 43.479 | 36.141  |
|    | HEMBA1000875 | 35.460  | 41.166  | 32.238  | 11.297  | 35.077  | 29.781  | 19.453 | 23.540  |
|    | HEMBA1000876 | 89.976  | 56.654  | 194.869 | 42.595  | 57.670  | 53.567  | 36.331 | 40.884  |
|    | HEMBA1000907 | 22.959  | 9.656   | 10.917  | 3.599   | 3.363   | 5.327   | 13.032 | 10.676  |
|    | HEMBA1000908 | 45.409  | 18.456  | 30.665  | 12.448  | 8.174   | 19.529  | 24.789 | 16.299  |
|    | HEMBA1000910 | 47.107  | 13.681  | 26.933  | 5.866   | 7.073   | 19.938  | 22.971 | 11.592  |
| 10 | HEMBA1000918 | 67.437  | 29.880  | 114.873 | 25.206  | 16.670  | 25.895  | 26.769 | 24.710  |
|    | HEMBA1000919 | 44.938  | 29.704  | 40.184  | 22.126  | 16.008  | 24.639  | 23.073 | 20.233  |
|    | HEMBA1000934 | 162.546 | 35.314  | 59.012  | 18.820  | 30.796  | 53.492  | 33.824 | 20.798  |
|    | HEMBA1000935 | 16.284  | 29.481  | 71.669  | 12.587  | 23.834  | 13.188  | 7.830  | 13.322  |
|    | HEMBA1000940 | 44.243  | 39.296  | 75.619  | 25.080  | 28.113  | 39.401  | 25.948 | 30.168  |
|    | HEMBA1000942 | 126.095 | 96.812  | 260.912 | 62.657  | 49.118  | 47.891  | 35.814 | 49.631  |
| 15 | HEMBA1000943 | 14.439  | 12.702  | 14.690  | 4.792   | 8.391   | 11.856  | 11.039 | 7.414   |
|    | HEMBA1000946 | 15.461  | 5.506   | 18.692  | 9.000   | 5.772   | 0.000   | 19.405 | 9.939   |
|    | HEMBA1000960 | 179.860 | 151.073 | 343.747 | 107.319 | 85.691  | 117.093 | 82.928 | 94.494  |
|    | HEMBA1000962 | 73.395  | 34.803  | 60.061  | 26.562  | 28.789  | 47.944  | 60.067 | 31.619  |
|    | HEMBA1000968 | 14.529  | 12.486  | 35.270  | 18.733  | 6.213   | 7.458   | 7.214  | 4.624   |
|    | HEMBA1000971 | 50.148  | 19.281  | 37.515  | 12.222  | 19.562  | 29.874  | 22.045 | 23.135  |
| 20 | HEMBA1000972 | 51.100  | 33.450  | 188.137 | 28.972  | 24.576  | 23.736  | 13.731 | 27.272  |
|    | HEMBA1000974 | 5.609   | 10.649  | 12.866  | 2.929   | 2.603   | 3.800   | 6.104  | 4.964   |
|    | HEMBA1000975 | 34.417  | 19.132  | 42.499  | 15.644  | 4.009   | 16.478  | 14.192 | 14.353  |
|    | HEMBA1000979 | 90.061  | 38.532  | 99.641  | 19.754  | 27.516  | 38.801  | 31.347 | 36.440  |
|    | HEMBA1000981 | 35.338  | 31.281  | 38.672  | 19.544  | 34.385  | 38.280  | 24.897 | 29.059  |
|    | HEMBA1000983 | 71.391  | 34.501  | 58.683  | 22.640  | 32.825  | 32.384  | 27.465 | 31.286  |
| 25 | HEMBA1000985 | 9.290   | 20.363  | 22.497  | 4.058   | 6.343   | 9.035   | 7.852  | 3.257   |
|    | HEMBA1000986 | 128.714 | 74.713  | 236.019 | 56.662  | 52.957  | 85.340  | 63.718 | 54.892  |
|    | HEMBA1000991 | 72.707  | 55.780  | 160.717 | 34.676  | 32.494  | 41.317  | 23.483 | 37.846  |
|    | HEMBA1001007 | 123.690 | 42.563  | 69.807  | 23.525  | 34.263  | 47.777  | 47.496 | 48.154  |
|    | HEMBA1001008 | 124.864 | 47.842  | 83.746  | 18.125  | 25.490  | 52.693  | 30.668 | 24.961  |
|    | HEMBA1001009 | 37.843  | 29.269  | 36.715  | 11.055  | 17.115  | 17.937  | 17.701 | 22.055  |
| 30 | HEMBA1001014 | 109.049 | 83.356  | 233.234 | 60.123  | 61.977  | 94.424  | 47.095 | 74.625  |
|    | HEMBA1001017 | 50.408  | 20.212  | 48.394  | 16.020  | 28.537  | 31.917  | 27.876 | 24.283  |
|    | HEMBA1001019 | 7.327   | 7.582   | 14.865  | 6.154   | 10.598  | 5.643   | 3.920  | 7.188   |
|    | HEMBA1001020 | 53.067  | 55.646  | 115.814 | 31.640  | 25.647  | 24.596  | 23.146 | 27.169  |
|    | HEMBA1001021 | 115.724 | 42.415  | 59.434  | 28.828  | 26.181  | 64.484  | 64.173 | 29.614  |
|    | HEMBA1001022 | 37.883  | 25.835  | 28.969  | 18.452  | 20.270  | 22.790  | 25.194 | 20.783  |
| 35 | HEMBA1001024 | 23.524  | 15.235  | 16.511  | 8.023   | 11.818  | 13.894  | 8.606  | 8.098   |
|    | HEMBA1001026 | 21.343  | 12.515  | 18.851  | 6.888   | 7.288   | 12.663  | 8.419  | 7.418   |
|    | HEMBA1001043 | 10.374  | 11.995  | 9.892   | 10.750  | 19.163  | 9.299   | 8.047  | 8.589   |
|    | HEMBA1001051 | 124.869 | 115.181 | 387.345 | 100.376 | 67.510  | 61.660  | 46.295 | 68.994  |
|    | HEMBA1001052 | 38.892  | 13.860  | 19.067  | 12.855  | 11.445  | 24.382  | 15.726 | 12.323  |
|    | HEMBA1001059 | 98.097  | 41.525  | 66.565  | 27.826  | 26.220  | 46.725  | 42.356 | 36.506  |
| 40 | HEMBA1001060 | 116.857 | 74.020  | 161.485 | 61.750  | 50.524  | 52.957  | 38.575 | 52.612  |
|    | HEMBA1001064 | 32.251  | 24.026  | 33.937  | 14.007  | 7.907   | 13.710  | 17.387 | 16.720  |
|    | HEMBA1001071 | 25.850  | 16.043  | 19.924  | 7.855   | 3.425   | 9.530   | 6.779  | 24.242  |
|    | HEMBA1001077 | 24.689  | 23.055  | 64.486  | 19.413  | 16.821  | 16.858  | 13.165 | 12.873  |
|    | HEMBA1001078 | 33.254  | 26.761  | 41.713  | 26.498  | 24.531  | 31.498  | 25.302 | 23.636  |
|    | HEMBA1001080 | 57.701  | 29.951  | 31.254  | 22.489  | 24.848  | 33.265  | 31.880 | 26.484  |
|    | HEMBA1001084 | 62.698  | 41.625  | 171.096 | 31.438  | 31.760  | 24.829  | 17.487 | 26.581  |
| 45 | HEMBA1001085 | 159.252 | 116.909 | 294.247 | 77.235  | 81.384  | 76.498  | 59.989 | 55.574  |
|    | HEMBA1001088 | 74.704  | 42.537  | 46.695  | 19.266  | 25.146  | 33.498  | 44.927 | 26.310  |
|    | HEMBA1001093 | 30.048  | 28.810  | 72.081  | 20.831  | 14.610  | 11.033  | 15.558 | 22.531  |
|    | HEMBA1001094 | 5.535   | 8.779   | 10.059  | 3.089   | 4.628   | 4.521   | 4.834  | 4.468   |
|    | HEMBA1001099 | 18.322  | 24.021  | 14.814  | 7.146   | 13.778  | 16.055  | 11.044 | 10.190  |
|    | HEMBA1001104 | 21.919  | 13.788  | 35.048  | 9.637   | 18.058  | 24.450  | 21.559 | 18.527  |
| 50 | HEMBA1001109 | 186.384 | 190.240 | 540.908 | 155.496 | 134.630 | 93.324  | 78.690 | 116.187 |
|    | HEMBA1001114 | 89.023  | 252.529 | 187.547 | 75.857  | 35.109  | 66.259  | 69.432 | 341.702 |
|    | HEMBA1001121 | 32.820  | 25.812  | 89.860  | 19.710  | 34.244  | 18.209  | 9.519  | 15.621  |
|    | HEMBA1001122 | 3.304   | 6.213   | 8.316   | 4.763   | 19.120  | 5.650   | 4.506  | 23.059  |
|    | HEMBA1001123 | 108.859 | 55.807  | 190.789 | 41.415  | 39.028  | 42.683  | 25.551 | 30.174  |
|    | HEMBA1001133 | 50.744  | 21.167  | 36.786  | 14.764  | 34.752  | 26.702  | 23.524 | 11.367  |
| 55 | HEMBA1001137 | 38.685  | 21.659  | 46.297  | 21.567  | 13.174  | 15.867  | 11.767 | 25.508  |

Table 17

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1001140 | 60.453  | 66.122  | 169.353 | 48.837  | 60.363  | 44.403  | 30.367  | 43.561  |
|    | HEMBA1001144 | 278.126 | 195.811 | 643.688 | 207.291 | 166.089 | 101.134 | 106.337 | 142.120 |
| 5  | HEMBA1001145 | 58.539  | 241.368 | 206.084 | 46.342  | 39.316  | 61.827  | 91.170  | 66.852  |
|    | HEMBA1001158 | 29.417  | 28.121  | 43.877  | 13.337  | 24.176  | 19.965  | 18.089  | 28.622  |
|    | HEMBA1001172 | 74.727  | 47.695  | 213.708 | 37.115  | 24.460  | 26.620  | 19.178  | 32.709  |
|    | HEMBA1001174 | 6.279   | 8.617   | 8.831   | 7.914   | 2.574   | 8.031   | 3.119   | 4.980   |
|    | HEMBA1001175 | 29.561  | 34.909  | 43.568  | 19.819  | 34.829  | 16.588  | 19.883  | 17.824  |
| 10 | HEMBA1001182 | 136.762 | 64.608  | 105.979 | 44.066  | 83.417  | 86.736  | 126.297 | 79.785  |
|    | HEMBA1001184 | 16.758  | 9.703   | 22.060  | 9.016   | 11.018  | 10.205  | 6.347   | 9.176   |
|    | HEMBA1001192 | 15.119  | 10.798  | 11.626  | 6.559   | 5.736   | 3.435   | 9.089   | 11.273  |
|    | HEMBA1001197 | 82.571  | 114.743 | 110.687 | 83.431  | 56.396  | 68.797  | 99.959  | 173.379 |
|    | HEMBA1001208 | 40.250  | 30.964  | 37.220  | 19.514  | 11.451  | 24.172  | 27.637  | 12.469  |
|    | HEMBA1001213 | 81.501  | 37.345  | 57.618  | 18.958  | 24.480  | 52.160  | 51.978  | 31.326  |
|    | HEMBA1001214 | 36.798  | 16.011  | 20.958  | 17.612  | 12.418  | 20.697  | 19.108  | 21.328  |
| 15 | HEMBA1001221 | 14.108  | 10.456  | 11.382  | 7.001   | 17.058  | 10.307  | 7.980   | 11.111  |
|    | HEMBA1001225 | 13.961  | 14.077  | 13.384  | 5.925   | 5.876   | 13.456  | 12.076  | 5.825   |
|    | HEMBA1001226 | 173.501 | 137.685 | 444.754 | 120.060 | 113.306 | 75.167  | 63.960  | 67.304  |
|    | HEMBA1001228 | 115.971 | 48.677  | 102.518 | 36.755  | 64.214  | 50.002  | 60.915  | 35.178  |
|    | HEMBA1001229 | 246.802 | 111.161 | 135.886 | 43.460  | 94.703  | 148.387 | 156.871 | 115.302 |
| 20 | HEMBA1001235 | 43.880  | 86.102  | 81.818  | 36.769  | 54.172  | 65.830  | 70.065  | 66.201  |
|    | HEMBA1001238 | 67.342  | 62.561  | 136.273 | 36.471  | 33.652  | 41.838  | 26.195  | 28.747  |
|    | HEMBA1001242 | 55.562  | 43.106  | 58.593  | 41.382  | 47.200  | 38.498  | 43.114  | 44.230  |
|    | HEMBA1001247 | 28.768  | 22.129  | 16.518  | 10.576  | 8.758   | 17.031  | 9.651   | 13.385  |
|    | HEMBA1001253 | 58.130  | 60.415  | 66.640  | 18.982  | 45.992  | 54.071  | 95.073  | 63.393  |
|    | HEMBA1001257 | 33.557  | 18.509  | 24.256  | 10.657  | 12.732  | 31.261  | 24.849  | 9.134   |
|    | HEMBA1001261 | 585.214 | 143.415 | 243.791 | 98.186  | 169.988 | 310.109 | 234.388 | 125.796 |
| 25 | HEMBA1001262 | 27.336  | 17.339  | 19.088  | 5.647   | 15.678  | 20.899  | 11.464  | 19.889  |
|    | HEMBA1001265 | 36.604  | 28.090  | 152.221 | 27.730  | 49.893  | 34.423  | 16.502  | 26.993  |
|    | HEMBA1001266 | 69.367  | 67.414  | 170.657 | 45.898  | 31.802  | 39.554  | 41.287  | 52.480  |
|    | HEMBA1001269 | 69.921  | 44.649  | 36.964  | 34.126  | 22.232  | 42.207  | 49.848  | 39.719  |
|    | HEMBA1001272 | 20.406  | 15.416  | 11.514  | 7.843   | 8.604   | 7.893   | 20.960  | 13.545  |
|    | HEMBA1001279 | 113.597 | 76.085  | 147.371 | 41.113  | 50.841  | 58.248  | 43.344  | 47.548  |
| 30 | HEMBA1001281 | 45.326  | 37.551  | 65.225  | 44.536  | 46.787  | 41.371  | 32.229  | 56.625  |
|    | HEMBA1001286 | 370.697 | 150.949 | 236.623 | 103.571 | 123.976 | 219.461 | 196.233 | 117.566 |
|    | HEMBA1001289 | 41.041  | 24.670  | 40.151  | 15.175  | 30.612  | 27.627  | 26.637  | 19.344  |
|    | HEMBA1001291 | 76.537  | 40.444  | 50.226  | 18.776  | 38.423  | 55.355  | 46.692  | 35.972  |
|    | HEMBA1001294 | 82.258  | 72.319  | 157.642 | 42.143  | 20.735  | 29.333  | 17.711  | 34.443  |
|    | HEMBA1001296 | 53.487  | 17.150  | 31.045  | 10.275  | 15.918  | 21.120  | 15.842  | 13.595  |
| 35 | HEMBA1001297 | 13.397  | 24.306  | 19.513  | 11.631  | 14.701  | 4.543   | 9.800   | 8.121   |
|    | HEMBA1001299 | 122.378 | 135.140 | 326.747 | 90.817  | 73.749  | 56.152  | 49.803  | 80.999  |
|    | HEMBA1001302 | 56.839  | 29.036  | 56.412  | 19.108  | 20.078  | 34.481  | 51.929  | 37.087  |
|    | HEMBA1001303 | 14.975  | 18.442  | 43.778  | 16.797  | 10.985  | 11.442  | 9.787   | 19.264  |
|    | HEMBA1001306 | 262.869 | 135.864 | 244.234 | 109.949 | 109.582 | 147.334 | 146.509 | 115.543 |
|    | HEMBA1001308 | 174.017 | 96.705  | 220.049 | 56.953  | 61.486  | 74.225  | 56.171  | 58.657  |
| 40 | HEMBA1001310 | 103.029 | 52.915  | 67.714  | 22.895  | 38.245  | 67.233  | 49.204  | 51.006  |
|    | HEMBA1001312 | 98.664  | 47.333  | 61.080  | 18.118  | 33.555  | 47.007  | 41.795  | 38.627  |
|    | HEMBA1001319 | 2.396   | 8.234   | 13.960  | 1.828   | 5.485   | 3.003   | 5.682   | 3.780   |
|    | HEMBA1001322 | 139.794 | 39.912  | 105.709 | 27.700  | 41.977  | 70.428  | 70.602  | 46.470  |
|    | HEMBA1001323 | 33.347  | 16.728  | 25.356  | 11.399  | 17.982  | 11.181  | 6.356   | 12.033  |
|    | HEMBA1001326 | 86.190  | 37.984  | 69.933  | 24.331  | 30.078  | 49.223  | 46.365  | 16.347  |
|    | HEMBA1001327 | 7.232   | 9.387   | 23.180  | 7.314   | 5.185   | 9.563   | 4.423   | 5.267   |
| 45 | HEMBA1001330 | 115.768 | 106.951 | 275.315 | 73.389  | 24.661  | 70.535  | 40.088  | 77.680  |
|    | HEMBA1001348 | 15.770  | 21.874  | 26.347  | 9.575   | 13.666  | 23.703  | 12.647  | 13.724  |
|    | HEMBA1001350 | 75.857  | 38.749  | 51.454  | 16.428  | 34.291  | 56.400  | 34.055  | 24.753  |
|    | HEMBA1001351 | 52.274  | 55.313  | 56.544  | 30.521  | 46.408  | 29.604  | 44.212  | 30.972  |
|    | HEMBA1001352 | 68.321  | 46.617  | 54.427  | 17.559  | 29.887  | 39.484  | 52.789  | 29.131  |
|    | HEMBA1001353 | 39.891  | 57.492  | 54.971  | 31.425  | 27.945  | 45.687  | 29.741  | 66.188  |
| 50 | HEMBA1001358 | 45.659  | 52.406  | 59.774  | 46.865  | 40.225  | 47.618  | 32.581  | 59.101  |
|    | HEMBA1001361 | 22.908  | 16.519  | 28.635  | 11.897  | 15.569  | 13.635  | 13.938  | 16.914  |
|    | HEMBA1001364 | 18.896  | 17.205  | 23.355  | 7.224   | 9.469   | 13.379  | 76.125  | 15.026  |
|    | HEMBA1001375 | 61.506  | 22.179  | 38.795  | 12.798  | 25.778  | 40.077  | 21.715  | 22.300  |
|    | HEMBA1001377 | 140.430 | 131.029 | 307.084 | 83.191  | 100.026 | 74.475  | 63.988  | 96.351  |
|    | HEMBA1001383 | 23.974  | 26.206  | 28.704  | 11.442  | 17.819  | 19.160  | 16.899  | 7.766   |
| 55 | HEMBA1001387 | 58.343  | 34.130  | 63.677  | 19.556  | 30.371  | 42.397  | 40.247  | 49.239  |

Table 18

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1001388 | 48.601  | 24.690  | 39.877  | 18.958  | 10.634  | 32.922  | 22.224  | 33.218  |
|    | HEMBA1001390 | 132.003 | 94.390  | 254.352 | 56.412  | 64.490  | 47.169  | 44.169  | 57.372  |
| 5  | HEMBA1001391 | 18.302  | 9.686   | 12.994  | 6.299   | 10.600  | 8.500   | 7.116   | 5.544   |
|    | HEMBA1001398 | 91.232  | 50.992  | 142.408 | 36.081  | 29.548  | 29.490  | 28.704  | 29.984  |
|    | HEMBA1001405 | 58.645  | 22.354  | 32.227  | 15.864  | 9.285   | 19.993  | 24.564  | 13.964  |
|    | HEMBA1001406 | 36.434  | 22.693  | 105.808 | 18.094  | 19.994  | 13.316  | 18.019  | 16.592  |
|    | HEMBA1001407 | 38.781  | 19.637  | 24.599  | 18.935  | 13.107  | 23.014  | 18.826  | 15.060  |
|    | HEMBA1001411 | 28.412  | 7.180   | 21.950  | 8.303   | 9.708   | 14.302  | 8.598   | 6.663   |
| 10 | HEMBA1001413 | 66.736  | 26.480  | 35.635  | 15.400  | 24.013  | 18.356  | 24.304  | 20.769  |
|    | HEMBA1001414 | 20.720  | 7.567   | 18.414  | 12.522  | 9.722   | 12.903  | 18.283  | 18.581  |
|    | HEMBA1001415 | 76.802  | 54.702  | 159.510 | 34.156  | 20.989  | 32.235  | 21.694  | 26.676  |
|    | HEMBA1001416 | 41.784  | 23.474  | 29.453  | 12.230  | 24.881  | 24.993  | 25.847  | 28.651  |
|    | HEMBA1001432 | 74.066  | 60.077  | 190.870 | 40.409  | 63.619  | 36.879  | 66.751  | 33.675  |
|    | HEMBA1001433 | 132.672 | 110.163 | 246.542 | 77.852  | 61.676  | 50.447  | 37.821  | 64.403  |
| 15 | HEMBA1001435 | 138.669 | 108.645 | 334.104 | 89.523  | 68.855  | 59.723  | 58.393  | 56.483  |
|    | HEMBA1001442 | 13.093  | 8.604   | 11.177  | 7.985   | 15.704  | 7.291   | 6.742   | 6.336   |
|    | HEMBA1001446 | 102.450 | 63.255  | 146.442 | 40.086  | 27.976  | 37.353  | 30.266  | 41.647  |
|    | HEMBA1001450 | 72.339  | 35.494  | 55.103  | 30.799  | 31.322  | 42.457  | 42.764  | 41.349  |
|    | HEMBA1001454 | 146.726 | 128.060 | 438.247 | 88.679  | 43.129  | 54.712  | 41.131  | 31.250  |
|    | HEMBA1001455 | 5.879   | 8.197   | 8.325   | 5.561   | 4.437   | 5.252   | 4.300   | 7.359   |
| 20 | HEMBA1001459 | 17.432  | 15.927  | 16.490  | 6.749   | 2.733   | 5.888   | 7.836   | 10.963  |
|    | HEMBA1001461 | 61.531  | 52.734  | 57.136  | 38.874  | 24.764  | 19.473  | 23.241  | 32.318  |
|    | HEMBA1001462 | 10.875  | 14.911  | 16.843  | 12.984  | 13.465  | 48.381  | 7.061   | 25.992  |
|    | HEMBA1001463 | 137.907 | 83.753  | 340.496 | 93.114  | 51.866  | 61.784  | 37.705  | 68.960  |
|    | HEMBA1001469 | 85.416  | 21.757  | 29.463  | 15.911  | 84.887  | 77.440  | 27.033  | 29.537  |
|    | HEMBA1001473 | 20.582  | 31.855  | 36.498  | 8.307   | 3.680   | 16.703  | 21.371  | 19.890  |
| 25 | HEMBA1001476 | 135.720 | 113.851 | 246.800 | 65.595  | 57.431  | 63.903  | 65.229  | 67.697  |
|    | HEMBA1001477 | 5.228   | 2.001   | 4.505   | 2.645   | 1.540   | 3.243   | 1.426   | 2.876   |
|    | HEMBA1001478 | 14.335  | 10.180  | 12.692  | 5.468   | 4.474   | 5.444   | 2.171   | 4.539   |
|    | HEMBA1001480 | 88.891  | 28.381  | 49.689  | 21.660  | 14.126  | 36.334  | 38.272  | 30.563  |
|    | HEMBA1001483 | 29.872  | 5.156   | 20.900  | 4.647   | 5.264   | 9.545   | 13.805  | 4.424   |
|    | HEMBA1001490 | 6.867   | 6.967   | 14.148  | 7.289   | 1.585   | 5.016   | 5.792   | 5.999   |
| 30 | HEMBA1001495 | 431.282 | 118.073 | 203.714 | 73.985  | 176.836 | 195.947 | 194.164 | 146.945 |
|    | HEMBA1001497 | 93.817  | 60.807  | 227.867 | 55.576  | 41.006  | 34.182  | 23.206  | 45.223  |
|    | HEMBA1001510 | 174.254 | 120.414 | 343.336 | 76.008  | 76.932  | 73.234  | 61.531  | 76.899  |
|    | HEMBA1001515 | 45.158  | 26.337  | 67.169  | 15.756  | 15.962  | 10.664  | 9.567   | 12.346  |
|    | HEMBA1001517 | 51.005  | 47.728  | 80.287  | 34.595  | 28.246  | 21.020  | 17.229  | 33.972  |
|    | HEMBA1001522 | 7.431   | 8.980   | 7.032   | 7.566   | 5.011   | 6.466   | 6.447   | 4.824   |
| 35 | HEMBA1001526 | 48.774  | 21.300  | 32.732  | 18.831  | 22.395  | 22.767  | 23.530  | 17.914  |
|    | HEMBA1001533 | 129.423 | 85.570  | 262.800 | 70.163  | 46.649  | 44.926  | 26.457  | 37.421  |
|    | HEMBA1001547 | 59.442  | 26.656  | 27.947  | 8.053   | 15.558  | 53.508  | 108.861 | 25.371  |
|    | HEMBA1001552 | 41.663  | 33.242  | 115.535 | 26.222  | 30.447  | 18.258  | 21.358  | 25.853  |
|    | HEMBA1001553 | 58.388  | 75.765  | 66.228  | 32.264  | 36.396  | 54.513  | 64.874  | 41.905  |
|    | HEMBA1001557 | 182.516 | 80.827  | 161.852 | 69.344  | 80.644  | 123.765 | 111.732 | 70.946  |
| 40 | HEMBA1001563 | 39.649  | 31.429  | 85.246  | 26.057  | 12.157  | 15.987  | 10.065  | 17.083  |
|    | HEMBA1001566 | 37.835  | 49.964  | 108.284 | 35.793  | 23.255  | 25.180  | 21.368  | 39.375  |
|    | HEMBA1001569 | 75.584  | 44.631  | 109.624 | 35.487  | 130.340 | 63.130  | 44.960  | 55.257  |
|    | HEMBA1001570 | 198.300 | 125.319 | 444.153 | 119.332 | 74.267  | 79.979  | 64.732  | 90.896  |
|    | HEMBA1001579 | 103.128 | 60.654  | 48.704  | 22.469  | 22.629  | 67.058  | 24.391  | 34.300  |
|    | HEMBA1001581 | 153.698 | 126.225 | 312.570 | 131.687 | 142.104 | 91.884  | 67.267  | 94.418  |
| 45 | HEMBA1001582 | 3.551   | 7.087   | 15.302  | 4.019   | 8.190   | 4.888   | 4.671   | 5.144   |
|    | HEMBA1001585 | 27.271  | 18.375  | 25.179  | 14.108  | 5.648   | 14.993  | 7.628   | 12.297  |
|    | HEMBA1001589 | 109.877 | 22.722  | 49.216  | 20.427  | 22.904  | 64.665  | 57.120  | 21.314  |
|    | HEMBA1001595 | 71.600  | 62.349  | 46.938  | 34.447  | 29.362  | 34.516  | 45.233  | 35.562  |
|    | HEMBA1001604 | 41.253  | 27.004  | 34.167  | 16.004  | 6.061   | 21.932  | 18.414  | 23.101  |
|    | HEMBA1001608 | 35.073  | 29.270  | 41.525  | 21.276  | 22.867  | 22.699  | 14.094  | 15.366  |
| 50 | HEMBA1001615 | 556.575 | 105.703 | 103.519 | 47.686  | 27.311  | 81.914  | 42.373  | 58.652  |
|    | HEMBA1001620 | 134.940 | 29.972  | 79.824  | 31.924  | 62.056  | 54.423  | 64.359  | 36.203  |
|    | HEMBA1001621 | 70.036  | 30.704  | 63.807  | 15.048  | 19.545  | 42.391  | 33.266  | 40.516  |
|    | HEMBA1001635 | 39.932  | 29.397  | 35.653  | 16.214  | 18.765  | 19.655  | 22.405  | 14.095  |
|    | HEMBA1001636 | 73.726  | 18.596  | 35.798  | 14.928  | 12.865  | 24.352  | 31.819  | 22.414  |
|    | HEMBA1001640 | 48.402  | 45.105  | 79.588  | 28.452  | 22.449  | 25.101  | 30.009  | 43.819  |
| 55 | HEMBA1001647 | 82.402  | 39.456  | 75.907  | 35.084  | 26.220  | 48.859  | 71.158  | 46.463  |
|    | HEMBA1001651 | 390.307 | 66.648  | 181.929 | 51.802  | 112.530 | 208.201 | 178.161 | 96.640  |



Table 19

|    |              |         |         |         |        |         |         |         |         |
|----|--------------|---------|---------|---------|--------|---------|---------|---------|---------|
|    | HEMBA1001655 | 60.366  | 18.983  | 58.438  | 20.404 | 25.072  | 27.162  | 29.260  | 26.673  |
|    | HEMBA1001658 | 6.754   | 15.270  | 17.542  | 13.420 | 5.060   | 4.800   | 4.973   | 4.979   |
| 5  | HEMBA1001661 | 87.199  | 20.304  | 32.793  | 13.066 | 8.394   | 24.098  | 22.916  | 24.583  |
|    | HEMBA1001665 | 160.583 | 20.830  | 54.460  | 12.363 | 48.457  | 86.024  | 73.847  | 21.248  |
|    | HEMBA1001670 | 16.953  | 38.651  | 17.002  | 34.999 | 14.855  | 17.849  | 22.906  | 29.478  |
|    | HEMBA1001672 | 32.013  | 18.885  | 29.000  | 10.798 | 7.763   | 13.782  | 17.314  | 12.393  |
|    | HEMBA1001673 | 38.188  | 67.401  | 34.336  | 38.037 | 14.401  | 17.612  | 30.520  | 43.461  |
|    | HEMBA1001675 | 25.652  | 15.594  | 33.810  | 5.390  | 15.796  | 13.173  | 20.020  | 12.830  |
| 10 | HEMBA1001676 | 91.000  | 54.310  | 85.397  | 92.681 | 131.468 | 50.365  | 47.230  | 68.405  |
|    | HEMBA1001678 | 218.382 | 128.995 | 336.408 | 93.889 | 115.305 | 80.843  | 48.879  | 83.933  |
|    | HEMBA1001680 | 82.159  | 51.521  | 165.818 | 33.978 | 36.449  | 33.368  | 38.495  | 35.261  |
|    | HEMBA1001681 | 1.654   | 0.785   | 0.840   | 2.142  | 2.581   | 2.772   | 2.146   | 2.424   |
|    | HEMBA1001684 | 143.985 | 84.151  | 377.154 | 72.850 | 69.097  | 61.638  | 30.820  | 52.077  |
|    | HEMBA1001695 | 16.068  | 10.112  | 14.571  | 6.860  | 4.930   | 4.572   | 6.164   | 7.330   |
| 15 | HEMBA1001702 | 26.509  | 13.637  | 8.186   | 8.466  | 4.041   | 2.043   | 3.870   | 3.613   |
|    | HEMBA1001709 | 67.279  | 26.552  | 35.845  | 13.982 | 21.742  | 28.610  | 24.540  | 19.603  |
|    | HEMBA1001711 | 20.072  | 29.559  | 39.037  | 20.902 | 21.639  | 12.713  | 14.718  | 33.127  |
|    | HEMBA1001712 | 80.448  | 25.222  | 51.628  | 19.393 | 12.482  | 38.014  | 39.474  | 14.831  |
|    | HEMBA1001714 | 360.368 | 55.902  | 142.225 | 33.748 | 51.048  | 144.094 | 124.654 | 59.543  |
|    | HEMBA1001717 | 78.599  | 137.380 | 18.549  | 12.298 | 5.575   | 38.689  | 10.120  | 6.047   |
| 20 | HEMBA1001718 | 51.621  | 52.280  | 151.597 | 31.305 | 21.166  | 29.146  | 14.075  | 24.411  |
|    | HEMBA1001723 | 17.072  | 13.658  | 8.525   | 5.653  | 8.811   | 9.350   | 11.097  | 7.268   |
|    | HEMBA1001731 | 35.728  | 22.781  | 41.531  | 15.151 | 12.421  | 15.292  | 14.020  | 16.584  |
|    | HEMBA1001734 | 52.546  | 40.599  | 99.556  | 25.099 | 24.031  | 28.537  | 17.389  | 32.936  |
|    | HEMBA1001736 | 177.269 | 58.328  | 110.046 | 33.820 | 58.955  | 108.630 | 91.464  | 62.571  |
|    | HEMBA1001741 | 41.432  | 12.649  | 29.883  | 14.886 | 16.207  | 10.446  | 11.420  | 7.286   |
| 25 | HEMBA1001744 | 5.531   | 6.849   | 12.961  | 13.191 | 14.151  | 4.519   | 8.367   | 8.623   |
|    | HEMBA1001745 | 41.752  | 17.786  | 36.239  | 12.476 | 21.118  | 23.635  | 15.410  | 16.514  |
|    | HEMBA1001746 | 27.437  | 14.874  | 24.099  | 8.668  | 21.929  | 19.488  | 11.306  | 10.070  |
|    | HEMBA1001761 | 93.148  | 46.911  | 179.597 | 28.212 | 33.421  | 34.026  | 19.164  | 25.901  |
|    | HEMBA1001762 | 55.612  | 45.069  | 102.148 | 38.307 | 35.260  | 33.316  | 21.274  | 45.248  |
|    | HEMBA1001781 | 13.298  | 21.385  | 26.693  | 6.898  | 17.098  | 52.601  | 11.768  | 23.068  |
| 30 | HEMBA1001784 | 89.965  | 43.765  | 70.064  | 26.575 | 31.708  | 50.347  | 52.265  | 31.618  |
|    | HEMBA1001791 | 182.379 | 81.719  | 171.066 | 44.628 | 49.350  | 82.856  | 58.215  | 48.207  |
|    | HEMBA1001794 | 248.582 | 163.789 | 153.778 | 73.632 | 50.595  | 152.279 | 178.827 | 132.329 |
|    | HEMBA1001800 | 23.432  | 21.165  | 27.668  | 11.281 | 20.728  | 24.910  | 36.900  | 22.729  |
|    | HEMBA1001803 | 17.343  | 8.333   | 22.801  | 6.620  | 6.043   | 7.560   | 6.613   | 10.079  |
|    | HEMBA1001804 | 109.775 | 44.797  | 59.456  | 29.337 | 34.849  | 44.372  | 36.696  | 35.851  |
| 35 | HEMBA1001808 | 78.129  | 23.567  | 38.056  | 15.858 | 23.507  | 27.136  | 14.673  | 12.332  |
|    | HEMBA1001809 | 66.887  | 31.733  | 54.127  | 33.314 | 26.179  | 35.618  | 41.552  | 46.141  |
|    | HEMBA1001811 | 58.974  | 24.196  | 37.583  | 17.314 | 16.018  | 21.582  | 15.074  | 19.831  |
|    | HEMBA1001815 | 71.286  | 63.775  | 155.707 | 37.153 | 29.944  | 35.297  | 25.257  | 24.172  |
|    | HEMBA1001816 | 38.494  | 19.017  | 16.797  | 7.139  | 5.598   | 16.061  | 22.304  | 14.646  |
|    | HEMBA1001819 | 18.590  | 21.371  | 38.109  | 20.938 | 21.358  | 15.313  | 14.917  | 25.144  |
| 40 | HEMBA1001820 | 10.884  | 9.530   | 8.017   | 3.507  | 4.470   | 3.473   | 2.999   | 3.099   |
|    | HEMBA1001822 | 74.239  | 95.719  | 91.314  | 62.121 | 28.285  | 42.988  | 38.222  | 47.532  |
|    | HEMBA1001824 | 155.543 | 93.583  | 301.248 | 95.135 | 67.478  | 89.045  | 64.562  | 61.114  |
|    | HEMBA1001835 | 23.616  | 7.706   | 25.753  | 5.777  | 19.660  | 19.809  | 12.020  | 10.462  |
|    | HEMBA1001844 | 149.876 | 52.023  | 230.213 | 48.968 | 42.113  | 39.652  | 33.559  | 40.495  |
|    | HEMBA1001847 | 52.045  | 19.220  | 40.636  | 20.235 | 5.196   | 35.109  | 20.186  | 35.814  |
|    | HEMBA1001849 | 101.048 | 104.708 | 250.547 | 53.025 | 28.022  | 40.644  | 33.371  | 35.250  |
| 45 | HEMBA1001850 | 105.331 | 27.032  | 39.813  | 15.808 | 31.525  | 42.751  | 44.306  | 18.213  |
|    | HEMBA1001861 | 3.104   | 4.469   | 6.763   | 3.292  | 4.454   | 2.945   | 0.995   | 3.121   |
|    | HEMBA1001862 | 50.279  | 145.708 | 102.412 | 25.750 | 34.563  | 40.833  | 22.588  | 71.713  |
|    | HEMBA1001864 | 24.313  | 31.572  | 50.378  | 32.237 | 24.991  | 21.182  | 21.031  | 28.126  |
|    | HEMBA1001866 | 57.711  | 54.190  | 146.615 | 31.714 | 19.527  | 26.041  | 22.874  | 21.249  |
|    | HEMBA1001869 | 55.280  | 99.559  | 58.454  | 35.799 | 45.195  | 40.562  | 22.644  | 40.891  |
| 50 | HEMBA1001871 | 75.011  | 44.336  | 77.195  | 41.540 | 39.300  | 54.584  | 34.598  | 42.631  |
|    | HEMBA1001876 | 34.287  | 31.955  | 30.568  | 85.092 | 19.827  | 15.356  | 8.554   | 21.861  |
|    | HEMBA1001878 | 17.361  | 17.619  | 17.545  | 15.644 | 5.481   | 11.657  | 14.965  | 18.117  |
|    | HEMBA1001879 | 57.004  | 22.429  | 37.128  | 16.562 | 20.200  | 35.414  | 21.946  | 17.114  |
|    | HEMBA1001884 | 68.009  | 84.640  | 41.930  | 38.470 | 27.460  | 36.604  | 25.345  | 26.320  |
|    | HEMBA1001886 | 12.711  | 12.605  | 37.824  | 31.827 | 15.893  | 14.038  | 6.697   | 38.737  |
| 55 | HEMBA1001888 | 63.251  | 46.960  | 165.623 | 41.706 | 21.154  | 29.117  | 21.131  | 33.090  |

Table 20

|    |              |         |         |          |         |         |         |         |         |
|----|--------------|---------|---------|----------|---------|---------|---------|---------|---------|
|    | HEMBA1001890 | 42.902  | 42.848  | 42.779   | 30.112  | 25.432  | 24.430  | 22.605  | 26.730  |
|    | HEMBA1001896 | 66.448  | 24.720  | 44.103   | 21.972  | 17.708  | 30.703  | 19.628  | 23.571  |
| 5  | HEMBA1001899 | 36.251  | 25.553  | 24.121   | 14.701  | 12.301  | 21.838  | 17.455  | 20.813  |
|    | HEMBA1001904 | 54.904  | 256.020 | 233.857  | 243.646 | 55.587  | 234.548 | 188.571 | 526.744 |
|    | HEMBA1001910 | 40.309  | 10.865  | 13.738   | 11.244  | 8.226   | 15.367  | 15.894  | 13.300  |
|    | HEMBA1001911 | 35.962  | 23.128  | 26.357   | 25.151  | 11.860  | 24.224  | 22.870  | 18.238  |
|    | HEMBA1001912 | 59.924  | 66.966  | 97.679   | 51.180  | 45.903  | 33.336  | 33.019  | 40.551  |
|    | HEMBA1001913 | 175.368 | 39.664  | 67.432   | 33.132  | 26.376  | 63.459  | 70.607  | 52.824  |
| 10 | HEMBA1001915 | 14.756  | 14.666  | 30.224   | 8.295   | 7.629   | 17.718  | 6.737   | 8.522   |
|    | HEMBA1001918 | 5.018   | 8.961   | 27.591   | 7.538   | 11.032  | 8.265   | 4.852   | 4.772   |
|    | HEMBA1001921 | 4.431   | 8.444   | 18.196   | 11.252  | 12.587  | 7.417   | 7.668   | 2.769   |
|    | HEMBA1001931 | 3.948   | 0.000   | 4.664    | 1.422   | 3.480   | 2.935   | 1.127   | 2.898   |
|    | HEMBA1001939 | 94.821  | 24.679  | 81.706   | 24.209  | 16.692  | 37.223  | 29.835  | 13.058  |
|    | HEMBA1001940 | 54.512  | 33.931  | 145.138  | 26.273  | 27.653  | 18.649  | 13.136  | 19.614  |
| 15 | HEMBA1001942 | 38.572  | 16.710  | 32.402   | 18.718  | 14.782  | 25.435  | 26.410  | 16.143  |
|    | HEMBA1001944 | 210.898 | 71.197  | 96.883   | 48.156  | 38.533  | 82.132  | 92.097  | 74.740  |
|    | HEMBA1001945 | 31.531  | 17.019  | 14.533   | 10.175  | 3.037   | 17.421  | 12.222  | 11.694  |
|    | HEMBA1001950 | 7.103   | 7.424   | 9.611    | 3.281   | 4.091   | 7.632   | 5.310   | 4.044   |
|    | HEMBA1001951 | 46.024  | 19.234  | 101.026  | 19.207  | 13.212  | 23.714  | 20.006  | 19.402  |
|    | HEMBA1001958 | 44.554  | 12.806  | 35.277   | 17.321  | 13.181  | 22.652  | 28.735  | 20.948  |
| 20 | HEMBA1001960 | 20.513  | 7.802   | 16.888   | 8.822   | 2.948   | 8.826   | 10.834  | 12.935  |
|    | HEMBA1001962 | 4.367   | 5.104   | 4.205    | 2.811   | 3.031   | 4.870   | 2.364   | 2.994   |
|    | HEMBA1001964 | 35.944  | 22.281  | 62.761   | 18.757  | 6.663   | 17.775  | 8.068   | 8.601   |
|    | HEMBA1001967 | 47.345  | 29.504  | 42.717   | 13.526  | 22.051  | 33.555  | 23.601  | 37.521  |
|    | HEMBA1001979 | 35.138  | 6.478   | 16.732   | 12.797  | 5.919   | 13.447  | 10.355  | 9.155   |
|    | HEMBA1001987 | 60.083  | 52.275  | 190.331  | 45.735  | 24.898  | 26.381  | 17.514  | 28.891  |
| 25 | HEMBA1001991 | 111.286 | 79.833  | 276.566  | 56.455  | 50.862  | 50.789  | 40.252  | 54.919  |
|    | HEMBA1002003 | 66.389  | 23.989  | 53.710   | 17.039  | 17.174  | 30.547  | 28.422  | 24.474  |
|    | HEMBA1002005 | 86.885  | 41.457  | 150.127  | 33.935  | 15.339  | 24.541  | 24.237  | 27.345  |
|    | HEMBA1002008 | 32.101  | 25.375  | 86.511   | 18.349  | 8.912   | 7.593   | 18.519  | 14.967  |
|    | HEMBA1002018 | 66.105  | 22.380  | 36.174   | 16.334  | 21.482  | 27.922  | 34.098  | 27.804  |
|    | HEMBA1002022 | 13.986  | 8.018   | 13.490   | 0.000   | 2.985   | 5.730   | 6.036   | 1.433   |
| 30 | HEMBA1002029 | 132.547 | 305.823 | 115.974  | 144.692 | 70.087  | 74.071  | 37.046  | 204.730 |
|    | HEMBA1002030 | 17.077  | 10.337  | 14.524   | 5.906   | 8.466   | 5.897   | 6.258   | 6.824   |
|    | HEMBA1002035 | 48.658  | 12.959  | 10.324   | 14.325  | 7.176   | 14.446  | 14.084  | 13.506  |
|    | HEMBA1002037 | 16.343  | 34.097  | 27.567   | 14.451  | 12.568  | 15.087  | 13.819  | 12.140  |
|    | HEMBA1002038 | 68.477  | 31.733  | 91.391   | 16.935  | 8.370   | 6.020   | 17.500  | 19.367  |
|    | HEMBA1002039 | 15.944  | 22.707  | 17.807   | 13.914  | 7.910   | 3.306   | 4.716   | 11.003  |
| 35 | HEMBA1002042 | 41.657  | 27.877  | 32.654   | 21.111  | 14.815  | 10.217  | 24.300  | 22.659  |
|    | HEMBA1002043 | 149.364 | 92.912  | 208.642  | 70.906  | 53.861  | 84.089  | 81.242  | 61.829  |
|    | HEMBA1002048 | 137.253 | 29.889  | 60.279   | 19.894  | 21.605  | 66.594  | 55.483  | 30.137  |
|    | HEMBA1002049 | 98.417  | 84.099  | 271.170  | 63.157  | 87.434  | 48.247  | 39.557  | 53.676  |
|    | HEMBA1002053 | 33.636  | 19.194  | 25.821   | 11.890  | 16.358  | 16.441  | 25.376  | 27.152  |
|    | HEMBA1002055 | 67.115  | 34.916  | 39.511   | 37.518  | 17.449  | 25.297  | 28.606  | 39.067  |
| 40 | HEMBA1002056 | 13.684  | 12.039  | 16.129   | 14.136  | 1.311   | 8.564   | 4.481   | 12.538  |
|    | HEMBA1002061 | 11.815  | 14.960  | 29.478   | 10.168  | 10.973  | 11.179  | 9.701   | 8.124   |
|    | HEMBA1002080 | 59.350  | 80.319  | 81.497   | 43.371  | 72.416  | 39.904  | 45.653  | 53.581  |
|    | HEMBA1002084 | 11.331  | 7.502   | 15.981   | 7.301   | 10.773  | 13.652  | 6.835   | 5.555   |
|    | HEMBA1002085 | 69.868  | 62.174  | 111.196  | 13.760  | 19.083  | 101.175 | 43.117  | 14.011  |
|    | HEMBA1002092 | 127.409 | 33.016  | 60.924   | 24.219  | 32.654  | 72.141  | 50.433  | 27.770  |
|    | HEMBA1002098 | 34.645  | 16.695  | 25.357   | 15.741  | 15.632  | 18.082  | 12.882  | 20.451  |
| 45 | HEMBA1002100 | 118.301 | 90.733  | 129.453  | 60.276  | 41.079  | 89.713  | 44.294  | 67.352  |
|    | HEMBA1002101 | 57.160  | 69.427  | 106.418  | 34.067  | 32.565  | 38.238  | 15.932  | 74.139  |
|    | HEMBA1002102 | 104.746 | 76.058  | 178.766  | 45.801  | 50.114  | 53.399  | 40.628  | 54.459  |
|    | HEMBA1002105 | 35.380  | 25.812  | 31.300   | 14.131  | 14.867  | 29.842  | 22.894  | 23.960  |
|    | HEMBA1002107 | 62.621  | 45.738  | 65.486   | 28.199  | 31.808  | 52.057  | 163.850 | 77.437  |
|    | HEMBA1002113 | 745.018 | 396.517 | 1335.986 | 321.385 | 369.500 | 391.825 | 236.013 | 348.025 |
| 50 | HEMBA1002119 | 35.812  | 23.546  | 72.351   | 18.292  | 19.991  | 18.086  | 26.533  | 25.611  |
|    | HEMBA1002125 | 42.106  | 14.033  | 45.440   | 15.858  | 20.474  | 47.217  | 28.894  | 33.563  |
|    | HEMBA1002131 | 84.269  | 29.512  | 46.944   | 12.807  | 29.311  | 40.381  | 49.691  | 37.106  |
|    | HEMBA1002133 | 37.736  | 19.103  | 27.034   | 45.990  | 11.161  | 21.694  | 20.410  | 24.305  |
|    | HEMBA1002139 | 25.756  | 10.925  | 20.941   | 4.978   | 11.839  | 9.451   | 7.795   | 9.431   |
|    | HEMBA1002141 | 20.036  | 14.349  | 19.713   | 9.608   | 3.638   | 14.521  | 10.225  | 10.190  |
| 55 | HEMBA1002144 | 86.896  | 68.335  | 193.756  | 56.749  | 45.612  | 36.918  | 23.020  | 39.262  |

Table 21

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1002147 | 135.045 | 48.848  | 87.208  | 42.412  | 46.318  | 67.257  | 83.313  | 45.988  |
|    | HEMBA1002150 | 347.113 | 89.434  | 182.502 | 48.715  | 86.270  | 215.282 | 234.394 | 85.507  |
| 5  | HEMBA1002151 | 60.410  | 19.140  | 11.868  | 10.122  | 7.938   | 26.996  | 19.485  | 14.196  |
|    | HEMBA1002153 | 32.258  | 25.478  | 35.746  | 20.325  | 25.638  | 15.972  | 26.019  | 19.827  |
|    | HEMBA1002156 | 118.226 | 31.167  | 44.382  | 21.446  | 21.743  | 47.426  | 40.620  | 16.858  |
|    | HEMBA1002160 | 166.654 | 114.853 | 336.241 | 90.651  | 71.047  | 63.857  | 41.633  | 55.419  |
|    | HEMBA1002161 | 72.851  | 68.019  | 132.156 | 42.302  | 37.035  | 29.438  | 49.436  | 41.818  |
|    | HEMBA1002162 | 122.516 | 62.989  | 307.464 | 68.589  | 51.141  | 55.242  | 37.823  | 54.952  |
| 10 | HEMBA1002163 | 49.889  | 43.602  | 64.932  | 20.426  | 7.151   | 0.000   | 30.979  | 32.578  |
|    | HEMBA1002164 | 110.221 | 59.044  | 71.408  | 32.652  | 19.476  | 39.440  | 43.639  | 52.404  |
|    | HEMBA1002166 | 312.686 | 256.137 | 768.834 | 194.638 | 171.071 | 159.271 | 134.442 | 213.993 |
|    | HEMBA1002167 | 139.053 | 18.430  | 69.693  | 11.057  | 30.091  | 50.202  | 48.620  | 13.648  |
|    | HEMBA1002173 | 137.562 | 47.918  | 197.006 | 36.833  | 26.164  | 29.478  | 20.169  | 23.078  |
|    | HEMBA1002177 | 100.895 | 25.141  | 41.676  | 25.857  | 17.903  | 28.153  | 22.687  | 14.081  |
| 15 | HEMBA1002178 | 102.831 | 19.500  | 46.717  | 13.290  | 32.323  | 37.856  | 44.115  | 27.390  |
|    | HEMBA1002179 | 55.617  | 56.403  | 85.686  | 45.680  | 26.918  | 60.684  | 59.110  | 64.849  |
|    | HEMBA1002185 | 85.236  | 71.958  | 212.844 | 43.915  | 27.049  | 32.172  | 22.480  | 32.386  |
|    | HEMBA1002188 | 79.413  | 28.280  | 31.826  | 23.275  | 21.094  | 33.295  | 36.478  | 18.236  |
|    | HEMBA1002189 | 56.349  | 70.609  | 148.011 | 47.092  | 32.460  | 30.101  | 34.751  | 30.532  |
|    | HEMBA1002191 | 149.027 | 80.765  | 149.493 | 49.599  | 42.372  | 60.095  | 35.614  | 44.348  |
| 20 | HEMBA1002192 | 15.125  | 24.996  | 24.821  | 15.373  | 16.495  | 12.778  | 5.075   | 13.566  |
|    | HEMBA1002195 | 57.368  | 28.635  | 52.828  | 16.254  | 22.600  | 31.843  | 32.995  | 29.791  |
|    | HEMBA1002196 | 14.884  | 12.040  | 36.633  | 16.632  | 15.443  | 16.808  | 12.691  | 17.451  |
|    | HEMBA1002199 | 24.937  | 13.539  | 27.878  | 15.728  | 17.426  | 10.639  | 19.664  | 8.927   |
|    | HEMBA1002204 | 9.525   | 5.141   | 14.869  | 5.784   | 4.619   | 10.508  | 27.818  | 9.410   |
|    | HEMBA1002208 | 80.832  | 44.154  | 68.317  | 68.994  | 37.453  | 74.064  | 81.827  | 112.820 |
| 25 | HEMBA1002212 | 8.709   | 6.241   | 10.946  | 9.855   | 2.602   | 5.864   | 5.366   | 4.214   |
|    | HEMBA1002215 | 36.521  | 28.098  | 31.165  | 19.157  | 20.170  | 17.045  | 19.124  | 21.605  |
|    | HEMBA1002217 | 50.834  | 62.759  | 64.668  | 59.460  | 28.990  | 37.379  | 29.963  | 64.813  |
|    | HEMBA1002220 | 27.731  | 14.997  | 21.655  | 8.451   | 6.409   | 5.663   | 1.641   | 6.714   |
|    | HEMBA1002226 | 91.222  | 113.507 | 269.906 | 85.183  | 68.283  | 59.461  | 56.996  | 78.924  |
|    | HEMBA1002227 | 55.957  | 91.527  | 79.169  | 45.309  | 54.892  | 28.856  | 14.142  | 101.597 |
| 30 | HEMBA1002229 | 170.518 | 117.589 | 418.739 | 112.916 | 121.703 | 85.889  | 63.450  | 90.668  |
|    | HEMBA1002237 | 47.252  | 49.329  | 124.721 | 32.838  | 24.807  | 23.399  | 15.399  | 26.185  |
|    | HEMBA1002239 | 103.363 | 107.010 | 190.830 | 54.740  | 72.381  | 50.451  | 45.873  | 70.581  |
|    | HEMBA1002241 | 70.729  | 45.281  | 81.541  | 43.824  | 30.449  | 54.328  | 62.401  | 55.767  |
|    | HEMBA1002253 | 25.559  | 27.877  | 35.744  | 16.605  | 13.851  | 18.938  | 18.391  | 14.286  |
|    | HEMBA1002257 | 6.344   | 5.787   | 15.404  | 4.338   | 1.225   | 7.119   | 4.456   | 3.711   |
| 35 | HEMBA1002259 | 48.436  | 19.578  | 38.228  | 12.875  | 21.884  | 23.928  | 18.619  | 17.988  |
|    | HEMBA1002262 | 271.029 | 219.564 | 645.284 | 192.491 | 147.403 | 112.552 | 83.057  | 137.280 |
|    | HEMBA1002265 | 56.947  | 30.786  | 32.747  | 24.827  | 15.078  | 28.043  | 29.609  | 27.237  |
|    | HEMBA1002267 | 108.413 | 102.522 | 243.566 | 58.776  | 30.097  | 53.750  | 24.099  | 29.752  |
|    | HEMBA1002270 | 51.540  | 26.396  | 27.766  | 20.313  | 15.579  | 28.348  | 19.144  | 18.695  |
|    | HEMBA1002286 | 44.897  | 17.027  | 19.776  | 11.608  | 10.900  | 25.959  | 14.425  | 10.031  |
| 40 | HEMBA1002290 | 46.449  | 29.289  | 34.095  | 19.879  | 8.778   | 26.461  | 22.368  | 13.907  |
|    | HEMBA1002302 | 152.883 | 48.105  | 92.158  | 43.064  | 48.204  | 66.899  | 80.872  | 58.027  |
|    | HEMBA1002304 | 6.050   | 6.814   | 19.492  | 7.905   | 4.038   | 7.098   | 5.307   | 1.737   |
|    | HEMBA1002307 | 100.402 | 132.737 | 29.225  | 24.612  | 24.050  | 42.355  | 39.076  | 37.573  |
|    | HEMBA1002316 | 504.772 | 93.620  | 191.534 | 46.814  | 134.386 | 238.599 | 265.167 | 88.087  |
|    | HEMBA1002319 | 2.868   | 2.456   | 9.670   | 0.933   | 4.715   | 4.369   | 5.615   | 4.579   |
|    | HEMBA1002320 | 10.783  | 7.936   | 12.646  | 4.775   | 10.008  | 4.330   | 5.128   | 3.630   |
| 45 | HEMBA1002321 | 10.743  | 9.992   | 10.165  | 4.549   | 2.547   | 7.952   | 4.048   | 5.700   |
|    | HEMBA1002328 | 89.382  | 28.578  | 41.753  | 17.175  | 20.280  | 46.772  | 34.722  | 18.301  |
|    | HEMBA1002333 | 63.542  | 21.208  | 32.148  | 11.559  | 15.490  | 29.410  | 33.449  | 21.452  |
|    | HEMBA1002337 | 93.059  | 61.863  | 189.067 | 60.545  | 43.745  | 40.085  | 13.954  | 34.456  |
|    | HEMBA1002339 | 354.195 | 154.586 | 211.807 | 141.794 | 124.733 | 173.522 | 284.831 | 192.502 |
|    | HEMBA1002341 | 116.488 | 29.538  | 63.800  | 15.812  | 36.228  | 50.321  | 45.600  | 28.278  |
| 50 | HEMBA1002348 | 6.882   | 4.859   | 18.593  | 4.056   | 4.011   | 5.790   | 4.476   | 4.606   |
|    | HEMBA1002349 | 6.318   | 7.600   | 13.603  | 5.490   | 2.590   | 6.088   | 1.306   | 3.748   |
|    | HEMBA1002353 | 14.497  | 13.001  | 12.249  | 10.426  | 11.840  | 13.977  | 17.141  | 16.760  |
|    | HEMBA1002356 | 104.283 | 29.278  | 40.945  | 24.892  | 20.681  | 42.242  | 45.108  | 28.190  |
|    | HEMBA1002357 | 64.855  | 251.508 | 219.532 | 215.420 | 68.836  | 206.728 | 136.339 | 380.371 |
|    | HEMBA1002360 | 87.281  | 64.882  | 77.475  | 30.773  | 56.108  | 61.060  | 59.371  | 56.291  |
| 55 | HEMBA1002363 | 71.449  | 51.764  | 63.278  | 52.711  | 43.280  | 33.755  | 31.248  | 49.484  |

Table 22

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1002365 | 13.435  | 10.346  | 9.534   | 5.175   | 9.470   | 4.446   | 10.802  | 9.325   |
|    | HEMBA1002370 | 29.997  | 4.107   | 11.054  | 4.163   | 3.224   | 9.009   | 7.477   | 2.921   |
| 5  | HEMBA1002374 | 91.498  | 18.475  | 11.325  | 15.862  | 10.204  | 18.275  | 29.203  | 18.856  |
|    | HEMBA1002376 | 186.416 | 75.425  | 127.578 | 52.056  | 38.450  | 99.590  | 90.190  | 86.994  |
|    | HEMBA1002377 | 81.350  | 41.908  | 63.893  | 37.221  | 23.657  | 110.374 | 162.166 | 50.770  |
|    | HEMBA1002380 | 189.521 | 137.466 | 477.021 | 137.908 | 491.500 | 90.431  | 81.778  | 127.767 |
|    | HEMBA1002381 | 195.037 | 101.891 | 447.953 | 125.938 | 88.330  | 90.756  | 70.293  | 106.965 |
|    | HEMBA1002384 | 35.247  | 22.319  | 42.496  | 14.694  | 19.780  | 40.126  | 24.243  | 12.399  |
| 10 | HEMBA1002389 | 44.796  | 8.467   | 36.790  | 11.793  | 9.362   | 18.736  | 15.497  | 20.728  |
|    | HEMBA1002396 | 101.267 | 69.467  | 33.025  | 16.553  | 26.429  | 25.964  | 22.294  | 23.666  |
|    | HEMBA1002402 | 75.818  | 24.148  | 28.457  | 8.848   | 9.913   | 21.219  | 16.569  | 22.818  |
|    | HEMBA1002417 | 132.807 | 33.708  | 84.436  | 22.910  | 38.826  | 58.589  | 58.836  | 38.486  |
|    | HEMBA1002419 | 75.547  | 31.202  | 41.690  | 13.558  | 16.457  | 27.281  | 19.705  | 13.013  |
|    | HEMBA1002420 | 20.818  | 20.448  | 35.559  | 17.034  | 13.878  | 23.652  | 14.721  | 24.637  |
| 15 | HEMBA1002421 | 23.903  | 25.285  | 59.023  | 7.957   | 14.189  | 24.230  | 61.011  | 21.849  |
|    | HEMBA1002423 | 12.762  | 11.755  | 25.941  | 12.938  | 14.177  | 14.263  | 12.495  | 7.512   |
|    | HEMBA1002424 | 111.995 | 32.293  | 46.657  | 24.424  | 25.667  | 42.797  | 41.513  | 31.249  |
|    | HEMBA1002426 | 60.617  | 23.489  | 45.906  | 20.305  | 25.173  | 30.860  | 37.738  | 21.223  |
|    | HEMBA1002430 | 24.143  | 3.128   | 4.900   | 1.517   | 4.594   | 3.316   | 8.552   | 3.069   |
|    | HEMBA1002439 | 59.808  | 37.476  | 93.025  | 16.789  | 23.324  | 47.857  | 33.099  | 27.888  |
| 20 | HEMBA1002441 | 77.869  | 99.262  | 110.341 | 38.723  | 34.562  | 65.309  | 85.421  | 66.581  |
|    | HEMBA1002454 | 58.292  | 15.281  | 38.384  | 7.520   | 19.044  | 25.972  | 22.845  | 22.015  |
|    | HEMBA1002458 | 57.329  | 46.103  | 101.242 | 30.906  | 82.184  | 61.800  | 26.094  | 59.039  |
|    | HEMBA1002460 | 32.814  | 9.205   | 25.085  | 12.160  | 23.009  | 18.683  | 14.678  | 14.249  |
|    | HEMBA1002462 | 98.420  | 38.135  | 55.208  | 10.919  | 24.257  | 49.697  | 43.851  | 32.387  |
|    | HEMBA1002465 | 11.819  | 15.260  | 28.272  | 11.939  | 11.225  | 10.938  | 13.593  | 20.635  |
| 25 | HEMBA1002469 | 129.538 | 61.348  | 120.187 | 39.999  | 39.213  | 76.320  | 69.012  | 86.309  |
|    | HEMBA1002475 | 3.180   | 5.116   | 4.323   | 2.230   | 1.467   | 4.495   | 10.058  | 15.691  |
|    | HEMBA1002477 | 93.696  | 64.730  | 238.114 | 55.207  | 43.349  | 42.487  | 29.532  | 52.786  |
|    | HEMBA1002480 | 210.023 | 58.823  | 84.566  | 37.478  | 45.060  | 106.554 | 97.791  | 70.487  |
|    | HEMBA1002481 | 104.499 | 76.474  | 222.903 | 71.502  | 68.097  | 67.421  | 42.334  | 82.875  |
|    | HEMBA1002486 | 81.465  | 42.269  | 169.291 | 49.953  | 40.852  | 39.475  | 29.153  | 26.233  |
| 30 | HEMBA1002490 | 66.695  | 11.331  | 31.314  | 14.602  | 25.852  | 35.945  | 35.954  | 15.278  |
|    | HEMBA1002495 | 59.387  | 12.315  | 25.235  | 7.937   | 4.091   | 17.402  | 14.269  | 10.773  |
|    | HEMBA1002498 | 56.425  | 23.969  | 67.108  | 11.632  | 15.655  | 24.420  | 8.272   | 12.219  |
|    | HEMBA1002501 | 40.955  | 16.994  | 22.074  | 13.575  | 16.498  | 21.707  | 39.506  | 24.619  |
|    | HEMBA1002503 | 81.763  | 65.044  | 154.595 | 39.638  | 33.778  | 31.214  | 32.219  | 26.800  |
|    | HEMBA1002504 | 155.357 | 95.219  | 279.391 | 90.092  | 120.246 | 70.516  | 52.190  | 53.323  |
| 35 | HEMBA1002508 | 99.443  | 88.234  | 259.961 | 107.085 | 79.039  | 59.181  | 59.924  | 61.423  |
|    | HEMBA1002513 | 50.560  | 22.902  | 30.431  | 26.184  | 20.783  | 30.500  | 32.903  | 22.864  |
|    | HEMBA1002515 | 60.938  | 23.064  | 25.098  | 16.172  | 5.716   | 20.264  | 20.643  | 13.727  |
|    | HEMBA1002524 | 94.350  | 36.789  | 56.675  | 25.998  | 28.978  | 49.840  | 57.148  | 25.205  |
|    | HEMBA1002538 | 116.609 | 19.632  | 26.764  | 12.798  | 20.203  | 16.422  | 17.588  | 15.759  |
|    | HEMBA1002542 | 81.641  | 81.952  | 188.888 | 54.986  | 41.864  | 32.890  | 30.719  | 38.321  |
| 40 | HEMBA1002544 | 52.394  | 49.175  | 98.415  | 47.569  | 28.375  | 28.766  | 20.948  | 21.614  |
|    | HEMBA1002546 | 76.538  | 62.763  | 156.051 | 47.625  | 74.374  | 45.975  | 34.756  | 46.753  |
|    | HEMBA1002547 | 11.448  | 4.516   | 10.647  | 4.733   | 12.220  | 11.801  | 9.959   | 7.127   |
|    | HEMBA1002550 | 67.373  | 39.322  | 48.468  | 15.671  | 16.497  | 121.814 | 94.586  | 25.401  |
|    | HEMBA1002551 | 94.391  | 14.109  | 27.085  | 11.976  | 8.787   | 41.811  | 16.656  | 18.665  |
|    | HEMBA1002552 | 204.583 | 77.430  | 205.444 | 49.448  | 44.756  | 67.408  | 63.216  | 57.684  |
| 45 | HEMBA1002555 | 25.583  | 16.987  | 6.743   | 7.020   | 5.608   | 14.795  | 10.111  | 7.416   |
|    | HEMBA1002558 | 92.744  | 77.405  | 245.703 | 59.079  | 41.247  | 33.253  | 41.617  | 41.270  |
|    | HEMBA1002561 | 53.810  | 51.725  | 155.895 | 34.956  | 27.689  | 17.264  | 10.138  | 27.124  |
|    | HEMBA1002562 | 15.261  | 10.822  | 15.435  | 8.259   | 18.723  | 12.036  | 9.056   | 10.429  |
|    | HEMBA1002568 | 24.946  | 17.442  | 35.354  | 17.552  | 10.576  | 15.262  | 16.158  | 22.328  |
|    | HEMBA1002569 | 112.340 | 34.133  | 118.192 | 37.823  | 57.431  | 54.936  | 26.164  | 27.309  |
|    | HEMBA1002570 | 43.528  | 50.809  | 52.195  | 34.901  | 23.728  | 28.874  | 9.812   | 50.494  |
| 50 | HEMBA1002574 | 106.101 | 25.148  | 46.793  | 16.369  | 26.322  | 57.278  | 42.795  | 31.310  |
|    | HEMBA1002583 | 36.042  | 17.582  | 15.178  | 12.456  | 13.418  | 20.158  | 16.837  | 16.418  |
|    | HEMBA1002587 | 61.527  | 32.123  | 45.811  | 22.217  | 18.974  | 32.461  | 40.250  | 39.915  |
|    | HEMBA1002590 | 151.583 | 106.074 | 287.276 | 84.766  | 32.321  | 58.221  | 38.642  | 53.855  |
|    | HEMBA1002592 | 97.854  | 85.949  | 220.496 | 89.335  | 52.684  | 53.653  | 35.724  | 57.578  |
|    | HEMBA1002595 | 146.016 | 25.688  | 60.427  | 24.156  | 31.909  | 86.770  | 79.174  | 26.760  |
| 55 | HEMBA1002609 | 97.442  | 41.926  | 56.054  | 29.427  | 35.650  | 35.839  | 44.688  | 47.074  |

Table 23

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1002617 | 26.792  | 86.617  | 59.446  | 73.277  | 12.909  | 21.055  | 16.612  | 49.136  |
|    | HEMBA1002619 | 101.131 | 25.998  | 30.959  | 15.921  | 21.913  | 40.814  | 35.003  | 28.108  |
| 5  | HEMBA1002621 | 14.592  | 25.845  | 18.082  | 8.927   | 7.391   | 8.869   | 5.823   | 12.283  |
|    | HEMBA1002624 | 254.635 | 42.837  | 73.568  | 48.036  | 71.673  | 113.228 | 101.786 | 53.514  |
|    | HEMBA1002628 | 13.044  | 21.509  | 23.649  | 9.956   | 16.559  | 10.257  | 7.527   | 11.624  |
|    | HEMBA1002629 | 32.199  | 16.370  | 29.306  | 15.884  | 5.722   | 15.410  | 42.964  | 19.680  |
|    | HEMBA1002632 | 55.206  | 48.044  | 90.986  | 36.904  | 27.840  | 28.811  | 37.912  | 40.048  |
|    | HEMBA1002645 | 95.909  | 89.897  | 220.184 | 68.171  | 48.643  | 56.847  | 41.355  | 59.667  |
| 10 | HEMBA1002651 | 39.882  | 27.730  | 33.313  | 16.958  | 11.617  | 23.904  | 29.214  | 16.599  |
|    | HEMBA1002652 | 107.869 | 24.187  | 46.646  | 22.248  | 22.950  | 37.216  | 25.827  | 23.282  |
|    | HEMBA1002659 | 133.320 | 62.916  | 259.854 | 57.860  | 53.172  | 46.511  | 45.193  | 47.291  |
|    | HEMBA1002661 | 88.495  | 68.014  | 154.170 | 35.196  | 22.499  | 26.290  | 22.314  | 23.727  |
|    | HEMBA1002666 | 34.174  | 20.511  | 39.391  | 17.036  | 15.852  | 20.842  | 19.202  | 13.470  |
|    | HEMBA1002667 | 155.384 | 166.244 | 164.658 | 29.523  | 520.013 | 30.234  | 25.612  | 83.769  |
|    | HEMBA1002673 | 71.650  | 40.718  | 73.822  | 33.403  | 39.914  | 40.129  | 38.619  | 22.532  |
| 15 | HEMBA1002678 | 161.681 | 89.986  | 247.534 | 84.722  | 54.176  | 46.941  | 61.944  | 77.085  |
|    | HEMBA1002679 | 56.416  | 61.838  | 66.537  | 37.679  | 18.172  | 29.420  | 38.238  | 44.113  |
|    | HEMBA1002688 | 6.756   | 3.364   | 5.387   | 3.816   | 1.793   | 4.608   | 3.600   | 2.944   |
|    | HEMBA1002696 | 49.639  | 17.555  | 29.241  | 14.788  | 12.463  | 31.752  | 34.100  | 14.772  |
|    | HEMBA1002703 | 185.328 | 96.718  | 97.793  | 54.473  | 50.688  | 113.980 | 87.727  | 59.878  |
|    | HEMBA1002706 | 49.533  | 30.340  | 35.679  | 18.469  | 19.118  | 26.777  | 29.277  | 29.224  |
| 20 | HEMBA1002712 | 52.878  | 59.111  | 110.506 | 41.591  | 43.597  | 39.604  | 30.872  | 26.457  |
|    | HEMBA1002715 | 149.045 | 59.858  | 87.643  | 47.473  | 41.264  | 95.279  | 127.808 | 65.580  |
|    | HEMBA1002716 | 23.142  | 6.155   | 17.077  | 15.783  | 23.557  | 19.064  | 27.647  | 7.572   |
|    | HEMBA1002718 | 26.328  | 19.063  | 41.749  | 26.345  | 16.735  | 28.367  | 26.822  | 21.779  |
|    | HEMBA1002728 | 117.984 | 88.950  | 293.019 | 81.290  | 43.679  | 65.830  | 46.321  | 57.003  |
|    | HEMBA1002730 | 131.726 | 26.862  | 67.877  | 28.628  | 36.686  | 49.987  | 50.380  | 43.208  |
| 25 | HEMBA1002734 | 77.679  | 26.481  | 34.604  | 21.128  | 21.756  | 41.413  | 60.057  | 45.992  |
|    | HEMBA1002742 | 10.730  | 11.276  | 12.768  | 7.910   | 1.394   | 8.502   | 8.297   | 10.909  |
|    | HEMBA1002746 | 60.876  | 22.803  | 35.400  | 15.830  | 15.630  | 30.605  | 31.889  | 32.759  |
|    | HEMBA1002748 | 76.748  | 26.130  | 38.669  | 17.760  | 32.833  | 43.493  | 53.440  | 49.691  |
|    | HEMBA1002750 | 40.663  | 45.306  | 95.205  | 18.200  | 10.037  | 22.527  | 29.331  | 30.774  |
| 30 | HEMBA1002755 | 94.758  | 62.505  | 220.964 | 63.414  | 37.572  | 44.593  | 28.497  | 39.737  |
|    | HEMBA1002759 | 13.935  | 3.117   | 8.450   | 3.792   | 2.291   | 8.714   | 10.261  | 5.285   |
|    | HEMBA1002763 | 430.941 | 88.931  | 172.920 | 71.623  | 88.921  | 195.471 | 197.995 | 118.224 |
|    | HEMBA1002767 | 65.682  | 25.272  | 35.782  | 14.035  | 19.183  | 31.497  | 33.393  | 18.347  |
|    | HEMBA1002768 | 100.803 | 57.554  | 59.457  | 35.570  | 28.006  | 43.770  | 40.930  | 38.215  |
|    | HEMBA1002769 | 103.210 | 30.236  | 54.098  | 17.099  | 19.753  | 35.636  | 41.922  | 26.940  |
|    | HEMBA1002770 | 20.350  | 16.268  | 28.054  | 21.736  | 10.754  | 12.030  | 14.991  | 11.776  |
| 35 | HEMBA1002777 | 130.615 | 37.655  | 72.072  | 41.794  | 31.219  | 54.881  | 59.342  | 43.652  |
|    | HEMBA1002779 | 97.457  | 29.259  | 75.705  | 22.719  | 22.643  | 33.689  | 38.357  | 27.804  |
|    | HEMBA1002780 | 72.338  | 50.411  | 181.356 | 42.070  | 19.957  | 31.370  | 27.642  | 39.672  |
|    | HEMBA1002790 | 87.371  | 61.291  | 152.514 | 38.033  | 29.616  | 28.032  | 20.352  | 34.761  |
|    | HEMBA1002794 | 202.405 | 77.515  | 95.182  | 31.252  | 41.834  | 100.167 | 80.301  | 50.036  |
|    | HEMBA1002798 | 9.194   | 21.334  | 22.468  | 20.281  | 12.823  | 11.156  | 11.647  | 15.735  |
| 40 | HEMBA1002801 | 10.311  | 4.603   | 11.704  | 3.190   | 4.420   | 3.016   | 13.829  | 6.693   |
|    | HEMBA1002810 | 42.583  | 45.313  | 55.088  | 35.416  | 29.480  | 60.935  | 44.046  | 51.794  |
|    | HEMBA1002816 | 52.084  | 37.823  | 56.994  | 35.902  | 25.574  | 33.389  | 50.974  | 49.045  |
|    | HEMBA1002818 | 321.516 | 100.826 | 187.799 | 84.893  | 81.695  | 152.339 | 171.186 | 117.409 |
|    | HEMBA1002820 | 139.924 | 107.278 | 533.137 | 90.533  | 79.745  | 59.869  | 54.302  | 52.958  |
|    | HEMBA1002826 | 40.776  | 6.495   | 16.825  | 5.349   | 3.319   | 11.765  | 7.355   | 8.363   |
| 45 | HEMBA1002833 | 119.102 | 44.248  | 40.839  | 17.864  | 23.748  | 44.398  | 57.302  | 36.668  |
|    | HEMBA1002850 | 5.941   | 8.407   | 13.251  | 6.179   | 2.932   | 4.352   | 4.844   | 3.735   |
|    | HEMBA1002862 | 60.735  | 32.524  | 30.030  | 9.693   | 9.527   | 27.595  | 19.397  | 18.101  |
|    | HEMBA1002863 | 77.126  | 30.401  | 44.872  | 22.577  | 28.639  | 50.264  | 55.374  | 45.005  |
|    | HEMBA1002867 | 25.385  | 13.583  | 42.122  | 15.283  | 9.501   | 22.992  | 15.180  | 16.196  |
|    | HEMBA1002876 | 101.249 | 55.603  | 38.073  | 36.480  | 23.017  | 53.318  | 51.363  | 56.689  |
| 50 | HEMBA1002886 | 9.474   | 14.188  | 23.688  | 7.657   | 11.980  | 14.640  | 6.432   | 18.574  |
|    | HEMBA1002896 | 78.580  | 27.420  | 49.774  | 16.754  | 20.366  | 36.684  | 35.283  | 42.662  |
|    | HEMBA1002913 | 126.001 | 32.845  | 58.138  | 14.590  | 22.846  | 54.873  | 56.608  | 38.801  |
|    | HEMBA1002921 | 63.378  | 25.443  | 37.615  | 15.333  | 19.054  | 28.881  | 37.595  | 34.298  |
|    | HEMBA1002924 | 65.007  | 29.109  | 104.125 | 15.411  | 19.920  | 31.099  | 23.998  | 19.182  |
|    | HEMBA1002934 | 432.841 | 308.291 | 644.522 | 180.470 | 145.293 | 273.733 | 166.153 | 242.809 |
| 55 | HEMBA1002935 | 92.005  | 52.184  | 221.722 | 49.477  | 41.867  | 34.331  | 29.646  | 38.889  |

Table 24

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1002937 | 38.698  | 30.844  | 33.817  | 12.784  | 18.251  | 14.107  | 24.131  | 18.662  |
|    | HEMBA1002939 | 39.755  | 22.867  | 33.838  | 19.077  | 13.734  | 19.266  | 17.364  | 17.750  |
| 5  | HEMBA1002944 | 53.762  | 33.349  | 51.861  | 21.860  | 18.241  | 23.920  | 21.112  | 16.286  |
|    | HEMBA1002951 | 38.716  | 29.783  | 39.196  | 19.808  | 29.614  | 19.702  | 28.422  | 21.177  |
|    | HEMBA1002954 | 24.907  | 8.542   | 20.941  | 9.265   | 13.758  | 15.056  | 7.297   | 13.424  |
|    | HEMBA1002962 | 86.680  | 62.578  | 220.246 | 62.027  | 37.753  | 44.037  | 31.812  | 41.725  |
|    | HEMBA1002968 | 105.871 | 78.850  | 221.414 | 65.545  | 40.380  | 43.093  | 38.816  | 50.281  |
|    | HEMBA1002970 | 48.034  | 34.741  | 30.834  | 18.482  | 6.639   | 17.125  | 23.514  | 36.180  |
| 10 | HEMBA1002971 | 39.492  | 44.145  | 35.618  | 25.614  | 12.932  | 25.193  | 14.823  | 23.202  |
|    | HEMBA1002973 | 83.710  | 70.965  | 156.167 | 43.307  | 28.902  | 29.947  | 26.101  | 34.769  |
|    | HEMBA1002978 | 35.833  | 19.362  | 27.056  | 13.075  | 20.398  | 11.324  | 16.059  | 13.956  |
|    | HEMBA1002981 | 107.112 | 35.200  | 56.576  | 23.695  | 26.105  | 33.054  | 37.199  | 21.249  |
|    | HEMBA1002985 | 79.217  | 44.154  | 116.532 | 27.950  | 26.158  | 37.462  | 28.927  | 20.335  |
|    | HEMBA1002986 | 61.056  | 78.203  | 68.834  | 49.967  | 64.529  | 38.333  | 28.919  | 20.529  |
| 15 | HEMBA1002988 | 37.307  | 36.609  | 71.802  | 20.621  | 8.965   | 16.229  | 15.956  | 22.796  |
|    | HEMBA1002992 | 97.720  | 72.656  | 79.841  | 50.454  | 34.289  | 57.004  | 61.291  | 91.211  |
|    | HEMBA1002995 | 51.473  | 63.779  | 55.081  | 36.903  | 25.007  | 38.630  | 19.510  | 48.529  |
|    | HEMBA1002997 | 41.734  | 70.805  | 29.264  | 27.019  | 33.664  | 24.201  | 18.442  | 25.973  |
|    | HEMBA1002999 | 35.341  | 16.456  | 18.357  | 11.146  | 7.034   | 12.086  | 13.966  | 9.970   |
|    | HEMBA1003004 | 55.654  | 33.689  | 35.194  | 15.119  | 16.204  | 20.866  | 27.891  | 20.055  |
| 20 | HEMBA1003006 | 40.682  | 24.886  | 20.750  | 20.903  | 26.595  | 25.445  | 20.310  | 20.924  |
|    | HEMBA1003008 | 29.269  | 20.922  | 74.697  | 25.061  | 17.787  | 10.271  | 5.688   | 12.638  |
|    | HEMBA1003021 | 130.889 | 123.646 | 311.225 | 101.957 | 95.443  | 64.844  | 60.969  | 90.296  |
|    | HEMBA1003027 | 54.935  | 32.610  | 44.710  | 18.890  | 52.131  | 26.286  | 28.112  | 31.561  |
|    | HEMBA1003029 | 33.333  | 42.436  | 60.787  | 20.829  | 34.111  | 29.704  | 49.230  | 45.833  |
|    | HEMBA1003031 | 34.000  | 25.311  | 18.494  | 14.998  | 13.316  | 13.955  | 15.773  | 27.136  |
| 25 | HEMBA1003032 | 171.114 | 46.990  | 71.365  | 23.640  | 50.526  | 81.278  | 84.036  | 46.352  |
|    | HEMBA1003033 | 168.563 | 118.674 | 378.771 | 109.222 | 90.670  | 70.150  | 55.336  | 77.819  |
|    | HEMBA1003034 | 173.162 | 127.221 | 484.135 | 108.238 | 85.630  | 61.733  | 36.799  | 63.312  |
|    | HEMBA1003035 | 11.693  | 5.195   | 9.305   | 4.478   | 5.058   | 11.024  | 2.553   | 4.409   |
|    | HEMBA1003037 | 261.159 | 89.481  | 145.321 | 58.521  | 65.732  | 104.677 | 89.571  | 71.674  |
|    | HEMBA1003041 | 103.945 | 105.085 | 291.931 | 93.188  | 75.193  | 53.097  | 39.564  | 58.217  |
| 30 | HEMBA1003046 | 40.254  | 39.965  | 46.856  | 26.192  | 11.615  | 35.659  | 25.378  | 32.416  |
|    | HEMBA1003047 | 127.888 | 49.341  | 139.750 | 32.219  | 32.320  | 57.450  | 33.390  | 28.702  |
|    | HEMBA1003048 | 87.433  | 35.962  | 42.305  | 12.040  | 20.442  | 39.108  | 29.597  | 21.461  |
|    | HEMBA1003064 | 6.366   | 8.535   | 6.201   | 8.809   | 4.415   | 7.239   | 3.330   | 7.829   |
|    | HEMBA1003067 | 55.833  | 34.508  | 77.097  | 26.154  | 20.523  | 28.755  | 24.783  | 17.488  |
|    | HEMBA1003071 | 54.728  | 22.509  | 28.869  | 17.461  | 19.647  | 20.624  | 22.285  | 19.438  |
|    | HEMBA1003072 | 62.421  | 30.769  | 31.225  | 26.146  | 22.906  | 21.483  | 17.616  | 19.134  |
| 35 | HEMBA1003076 | 111.254 | 51.085  | 78.972  | 37.151  | 40.422  | 49.911  | 47.023  | 64.737  |
|    | HEMBA1003077 | 36.471  | 15.407  | 24.522  | 8.009   | 8.453   | 18.661  | 13.797  | 5.837   |
|    | HEMBA1003078 | 34.143  | 38.741  | 77.906  | 31.907  | 37.169  | 17.933  | 17.439  | 18.923  |
|    | HEMBA1003079 | 28.559  | 39.563  | 41.646  | 26.110  | 25.889  | 25.576  | 18.026  | 24.526  |
|    | HEMBA1003083 | 61.036  | 48.635  | 169.439 | 52.788  | 60.016  | 41.611  | 29.619  | 67.469  |
|    | HEMBA1003086 | 49.032  | 40.488  | 154.409 | 29.869  | 12.063  | 16.544  | 16.039  | 19.219  |
| 40 | HEMBA1003090 | 34.778  | 14.860  | 23.758  | 12.710  | 24.132  | 15.848  | 25.027  | 14.265  |
|    | HEMBA1003094 | 184.999 | 43.363  | 72.116  | 30.096  | 53.636  | 78.251  | 84.551  | 34.775  |
|    | HEMBA1003096 | 31.440  | 18.030  | 25.774  | 10.290  | 11.781  | 14.033  | 27.791  | 11.348  |
|    | HEMBA1003098 | 36.774  | 64.970  | 88.562  | 34.074  | 24.271  | 25.656  | 18.003  | 31.059  |
|    | HEMBA1003101 | 55.716  | 24.121  | 22.316  | 11.682  | 13.163  | 21.315  | 25.117  | 15.689  |
|    | HEMBA1003109 | 48.411  | 21.093  | 39.285  | 21.315  | 21.724  | 27.826  | 31.034  | 21.809  |
| 45 | HEMBA1003114 | 41.101  | 24.786  | 22.792  | 14.164  | 14.657  | 18.320  | 15.152  | 16.038  |
|    | HEMBA1003117 | 22.939  | 13.535  | 20.191  | 6.812   | 10.538  | 14.917  | 18.015  | 12.566  |
|    | HEMBA1003120 | 24.531  | 24.408  | 55.805  | 26.574  | 13.838  | 15.423  | 15.080  | 21.728  |
|    | HEMBA1003129 | 40.276  | 46.792  | 104.463 | 37.995  | 37.989  | 21.990  | 26.267  | 38.207  |
|    | HEMBA1003133 | 50.080  | 22.873  | 35.022  | 15.164  | 20.000  | 21.592  | 25.551  | 27.656  |
|    | HEMBA1003136 | 146.630 | 23.706  | 65.990  | 18.301  | 31.049  | 69.754  | 51.669  | 25.346  |
| 50 | HEMBA1003142 | 69.008  | 47.867  | 130.557 | 32.955  | 30.384  | 25.274  | 27.118  | 29.493  |
|    | HEMBA1003148 | 59.282  | 20.084  | 32.740  | 18.292  | 18.973  | 32.206  | 22.003  | 24.674  |
|    | HEMBA1003151 | 53.856  | 20.003  | 51.824  | 13.233  | 9.854   | 27.114  | 22.251  | 13.546  |
|    | HEMBA1003152 | 20.577  | 9.803   | 19.388  | 10.017  | 5.761   | 31.586  | 23.227  | 6.853   |
|    | HEMBA1003157 | 16.477  | 9.272   | 16.246  | 9.919   | 17.605  | 7.547   | 10.156  | 10.181  |
|    | HEMBA1003166 | 293.814 | 257.380 | 671.361 | 260.521 | 221.325 | 137.459 | 148.208 | 199.758 |
| 55 | HEMBA1003171 | 17.730  | 8.702   | 16.527  | 6.499   | 6.963   | 7.361   | 5.733   | 7.164   |

Table 25

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1003175 | 38.620  | 40.445  | 100.302 | 29.594  | 17.624  | 21.152  | 13.386  | 15.936  |
|    | HEMBA1003179 | 63.835  | 33.869  | 50.631  | 27.163  | 25.502  | 35.500  | 39.052  | 37.713  |
| 5  | HEMBA1003186 | 100.461 | 75.611  | 231.787 | 75.781  | 58.278  | 54.222  | 55.862  | 61.615  |
|    | HEMBA1003196 | 36.422  | 27.557  | 45.633  | 20.623  | 18.740  | 21.756  | 30.501  | 35.864  |
|    | HEMBA1003197 | 8.462   | 9.564   | 5.534   | 5.965   | 4.051   | 3.138   | 7.054   | 7.066   |
|    | HEMBA1003199 | 34.650  | 18.409  | 81.183  | 15.696  | 16.799  | 9.492   | 17.381  | 15.917  |
|    | HEMBA1003202 | 79.337  | 59.764  | 236.822 | 43.286  | 41.820  | 31.106  | 32.936  | 45.183  |
| 10 | HEMBA1003204 | 66.523  | 56.272  | 172.818 | 48.560  | 31.451  | 33.193  | 27.421  | 28.849  |
|    | HEMBA1003210 | 23.713  | 52.768  | 35.498  | 5.529   | 38.451  | 16.353  | 59.417  | 17.563  |
|    | HEMBA1003212 | 126.394 | 90.709  | 372.474 | 74.164  | 62.392  | 59.663  | 45.714  | 54.363  |
|    | HEMBA1003218 | 19.415  | 13.105  | 13.670  | 6.371   | 4.792   | 13.681  | 10.789  | 6.536   |
|    | HEMBA1003220 | 81.171  | 86.642  | 147.453 | 89.495  | 42.391  | 47.586  | 54.647  | 123.019 |
|    | HEMBA1003222 | 25.803  | 22.891  | 28.577  | 7.994   | 11.404  | 10.413  | 9.856   | 14.985  |
|    | HEMBA1003225 | 105.735 | 21.238  | 40.848  | 11.586  | 20.280  | 48.243  | 44.574  | 19.547  |
| 15 | HEMBA1003229 | 30.394  | 26.363  | 41.333  | 22.998  | 17.475  | 14.707  | 20.154  | 19.749  |
|    | HEMBA1003230 | 69.643  | 70.015  | 42.439  | 31.176  | 20.775  | 56.815  | 40.191  | 75.238  |
|    | HEMBA1003235 | 44.989  | 43.337  | 105.267 | 33.038  | 19.405  | 20.834  | 22.018  | 29.856  |
|    | HEMBA1003236 | 8.677   | 17.896  | 8.735   | 7.270   | 7.328   | 17.286  | 5.295   | 18.441  |
|    | HEMBA1003250 | 7.260   | 12.598  | 12.993  | 4.750   | 4.815   | 7.242   | 5.982   | 4.378   |
|    | HEMBA1003252 | 56.274  | 51.495  | 65.197  | 28.241  | 33.512  | 44.917  | 62.506  | 60.076  |
| 20 | HEMBA1003257 | 71.751  | 16.083  | 40.414  | 13.391  | 19.441  | 38.988  | 28.614  | 19.028  |
|    | HEMBA1003268 | 19.492  | 18.996  | 46.948  | 14.167  | 12.769  | 11.524  | 8.622   | 17.414  |
|    | HEMBA1003273 | 48.113  | 38.933  | 125.242 | 29.404  | 21.135  | 22.989  | 17.240  | 24.704  |
|    | HEMBA1003276 | 36.279  | 34.802  | 113.584 | 23.812  | 17.208  | 20.437  | 14.685  | 26.145  |
|    | HEMBA1003277 | 31.363  | 12.827  | 21.514  | 10.462  | 11.287  | 13.206  | 16.182  | 14.465  |
|    | HEMBA1003278 | 36.998  | 24.906  | 71.222  | 17.479  | 15.791  | 16.787  | 10.948  | 17.841  |
| 25 | HEMBA1003280 | 50.716  | 16.000  | 38.057  | 16.933  | 20.792  | 37.901  | 30.931  | 31.493  |
|    | HEMBA1003281 | 66.732  | 21.393  | 32.728  | 15.032  | 18.415  | 26.844  | 28.577  | 24.898  |
|    | HEMBA1003284 | 9.746   | 8.482   | 12.941  | 5.779   | 5.747   | 5.813   | 3.545   | 3.499   |
|    | HEMBA1003286 | 69.502  | 35.947  | 60.729  | 21.827  | 29.473  | 52.233  | 50.283  | 47.695  |
|    | HEMBA1003291 | 13.248  | 9.951   | 10.909  | 3.504   | 18.100  | 6.561   | 6.341   | 7.647   |
|    | HEMBA1003294 | 69.599  | 52.239  | 168.555 | 39.127  | 38.460  | 40.377  | 24.057  | 27.486  |
|    | HEMBA1003296 | 61.933  | 31.456  | 37.947  | 21.206  | 23.199  | 23.249  | 34.580  | 37.768  |
| 30 | HEMBA1003304 | 7.117   | 5.972   | 8.976   | 6.154   | 8.839   | 4.199   | 3.461   | 3.227   |
|    | HEMBA1003306 | 17.590  | 15.590  | 22.443  | 8.410   | 11.282  | 8.448   | 6.333   | 9.387   |
|    | HEMBA1003309 | 6.845   | 10.103  | 12.198  | 14.015  | 7.776   | 8.709   | 3.955   | 18.326  |
|    | HEMBA1003314 | 637.052 | 210.608 | 238.618 | 105.098 | 198.106 | 299.884 | 273.738 | 171.516 |
|    | HEMBA1003315 | 83.736  | 51.612  | 84.690  | 32.381  | 29.482  | 56.694  | 53.105  | 54.024  |
| 35 | HEMBA1003322 | 108.401 | 88.539  | 256.570 | 51.502  | 51.083  | 44.130  | 42.804  | 45.519  |
|    | HEMBA1003326 | 42.723  | 20.581  | 14.759  | 11.799  | 7.780   | 18.087  | 12.420  | 9.516   |
|    | HEMBA1003327 | 61.811  | 36.702  | 87.698  | 28.181  | 19.784  | 18.596  | 17.453  | 18.377  |
|    | HEMBA1003328 | 53.406  | 51.712  | 114.941 | 36.926  | 25.000  | 18.669  | 22.079  | 32.865  |
|    | HEMBA1003330 | 108.955 | 82.099  | 207.708 | 73.413  | 52.244  | 50.838  | 55.920  | 55.390  |
|    | HEMBA1003348 | 121.625 | 110.275 | 337.182 | 94.209  | 99.717  | 67.000  | 43.513  | 80.023  |
|    | HEMBA1003369 | 5.861   | 23.644  | 14.930  | 4.979   | 1.726   | 9.064   | 3.020   | 5.373   |
| 40 | HEMBA1003370 | 315.016 | 197.956 | 369.117 | 140.044 | 139.216 | 140.758 | 150.458 | 124.948 |
|    | HEMBA1003373 | 50.135  | 31.291  | 53.330  | 17.430  | 5.513   | 19.164  | 8.117   | 19.638  |
|    | HEMBA1003376 | 174.269 | 170.290 | 519.668 | 126.099 | 89.798  | 108.226 | 81.818  | 107.084 |
|    | HEMBA1003380 | 43.015  | 24.657  | 74.071  | 29.281  | 24.407  | 19.711  | 13.485  | 20.047  |
|    | HEMBA1003384 | 25.555  | 30.071  | 68.079  | 15.389  | 9.455   | 11.810  | 8.800   | 14.281  |
|    | HEMBA1003387 | 6.515   | 2.588   | 2.697   | 1.577   | 1.109   | 1.803   | 1.986   | 3.464   |
| 45 | HEMBA1003392 | 111.457 | 25.882  | 42.253  | 17.323  | 29.007  | 50.086  | 29.337  | 23.550  |
|    | HEMBA1003395 | 16.068  | 18.666  | 35.483  | 15.254  | 9.873   | 10.355  | 6.207   | 12.514  |
|    | HEMBA1003399 | 45.227  | 21.480  | 37.035  | 19.231  | 15.354  | 19.471  | 27.860  | 34.116  |
|    | HEMBA1003400 | 116.210 | 36.907  | 58.706  | 24.811  | 49.133  | 53.819  | 60.041  | 53.109  |
|    | HEMBA1003402 | 32.500  | 16.239  | 27.864  | 8.795   | 12.867  | 17.141  | 11.617  | 14.596  |
|    | HEMBA1003403 | 60.260  | 43.377  | 46.720  | 20.221  | 26.579  | 36.738  | 44.891  | 45.870  |
| 50 | HEMBA1003408 | 196.676 | 49.687  | 70.460  | 29.354  | 50.910  | 84.358  | 77.062  | 46.433  |
|    | HEMBA1003412 | 104.813 | 43.934  | 55.699  | 47.250  | 43.763  | 61.953  | 59.463  | 47.139  |
|    | HEMBA1003417 | 22.445  | 13.970  | 25.036  | 8.433   | 7.282   | 10.593  | 5.696   | 11.032  |
|    | HEMBA1003418 | 57.411  | 57.397  | 76.232  | 97.795  | 45.336  | 43.450  | 22.206  | 90.604  |
|    | HEMBA1003420 | 29.838  | 15.856  | 201.831 | 11.319  | 8.067   | 11.379  | 12.938  | 14.721  |
|    | HEMBA1003425 | 17.466  | 15.895  | 21.662  | 4.733   | 6.723   | 8.483   | 10.838  | 9.083   |
| 55 | HEMBA1003433 | 23.931  | 18.435  | 24.576  | 12.136  | 10.421  | 10.074  | 11.092  | 11.581  |

Table 26

|    |              |         |         |         |        |         |         |         |         |
|----|--------------|---------|---------|---------|--------|---------|---------|---------|---------|
|    | HEMBA1003440 | 91.727  | 41.727  | 39.257  | 19.755 | 26.941  | 45.998  | 31.620  | 35.845  |
|    | HEMBA1003442 | 7.090   | 22.535  | 10.452  | 33.897 | 10.259  | 15.118  | 7.093   | 14.790  |
| 5  | HEMBA1003447 | 82.161  | 36.670  | 48.248  | 26.789 | 18.587  | 41.591  | 42.314  | 35.065  |
|    | HEMBA1003453 | 50.472  | 26.692  | 25.954  | 16.130 | 11.252  | 16.584  | 28.534  | 21.256  |
|    | HEMBA1003461 | 55.687  | 25.328  | 42.686  | 17.261 | 18.856  | 27.281  | 22.795  | 17.854  |
|    | HEMBA1003463 | 40.102  | 23.311  | 34.469  | 13.456 | 19.704  | 20.277  | 16.984  | 18.124  |
|    | HEMBA1003465 | 92.245  | 40.963  | 61.816  | 28.410 | 36.051  | 39.389  | 40.220  | 36.851  |
|    | HEMBA1003480 | 114.075 | 114.841 | 266.076 | 76.366 | 67.942  | 56.459  | 51.589  | 62.191  |
| 10 | HEMBA1003485 | 44.403  | 28.836  | 33.659  | 14.371 | 8.636   | 26.284  | 16.036  | 14.582  |
|    | HEMBA1003487 | 42.939  | 15.463  | 23.730  | 9.752  | 15.729  | 24.902  | 21.136  | 16.494  |
|    | HEMBA1003492 | 31.026  | 21.538  | 56.674  | 14.934 | 12.014  | 12.082  | 9.567   | 14.655  |
|    | HEMBA1003494 | 97.366  | 260.496 | 50.174  | 48.821 | 12.504  | 74.554  | 20.623  | 180.841 |
|    | HEMBA1003497 | 39.000  | 17.943  | 24.659  | 11.432 | 13.881  | 21.376  | 18.562  | 6.072   |
|    | HEMBA1003503 | 54.774  | 21.486  | 28.175  | 12.948 | 17.154  | 30.911  | 36.463  | 16.806  |
| 15 | HEMBA1003511 | 18.672  | 14.740  | 43.023  | 11.794 | 13.330  | 8.925   | 16.405  | 11.615  |
|    | HEMBA1003528 | 385.123 | 191.234 | 239.319 | 81.329 | 123.915 | 213.945 | 179.430 | 96.672  |
|    | HEMBA1003530 | 43.820  | 12.384  | 23.693  | 10.695 | 21.216  | 20.067  | 28.030  | 16.204  |
|    | HEMBA1003531 | 111.104 | 73.542  | 215.578 | 67.833 | 214.022 | 56.139  | 50.217  | 66.992  |
|    | HEMBA1003532 | 145.137 | 62.379  | 83.827  | 37.506 | 53.388  | 90.314  | 77.728  | 60.515  |
|    | HEMBA1003538 | 61.123  | 20.746  | 32.949  | 11.160 | 19.286  | 34.305  | 28.231  | 13.837  |
| 20 | HEMBA1003545 | 21.489  | 10.501  | 20.608  | 5.904  | 7.197   | 10.239  | 6.617   | 8.168   |
|    | HEMBA1003546 | 31.371  | 32.365  | 28.613  | 13.365 | 226.243 | 16.427  | 16.554  | 24.821  |
|    | HEMBA1003548 | 4.466   | 8.124   | 9.845   | 4.563  | 7.542   | 6.155   | 5.647   | 8.387   |
|    | HEMBA1003553 | 79.837  | 51.515  | 50.379  | 23.327 | 28.564  | 49.154  | 63.525  | 48.955  |
|    | HEMBA1003555 | 20.066  | 8.873   | 13.692  | 4.762  | 3.684   | 10.112  | 10.962  | 6.521   |
|    | HEMBA1003556 | 57.280  | 36.399  | 128.391 | 29.283 | 16.426  | 19.257  | 18.121  | 24.622  |
| 25 | HEMBA1003560 | 9.290   | 4.426   | 2.529   | 2.848  | 1.767   | 2.983   | 6.207   | 6.539   |
|    | HEMBA1003565 | 42.648  | 29.588  | 20.996  | 8.344  | 13.984  | 21.927  | 21.847  | 22.043  |
|    | HEMBA1003568 | 7.244   | 1.649   | 7.712   | 2.430  | 3.763   | 3.172   | 2.836   | 2.592   |
|    | HEMBA1003569 | 25.048  | 20.536  | 23.764  | 33.957 | 13.740  | 16.235  | 19.512  | 16.518  |
|    | HEMBA1003571 | 111.721 | 94.378  | 326.335 | 84.368 | 71.788  | 50.029  | 48.011  | 59.960  |
|    | HEMBA1003579 | 3.335   | 7.399   | 15.353  | 6.553  | 8.948   | 2.872   | 9.198   | 6.421   |
| 30 | HEMBA1003580 | 274.105 | 50.292  | 102.103 | 26.686 | 59.875  | 128.943 | 110.375 | 35.695  |
|    | HEMBA1003581 | 112.013 | 31.295  | 94.083  | 21.641 | 36.215  | 54.336  | 50.711  | 21.238  |
|    | HEMBA1003591 | 97.076  | 64.326  | 77.160  | 89.876 | 47.882  | 53.615  | 40.656  | 45.172  |
|    | HEMBA1003595 | 32.697  | 22.842  | 84.629  | 19.075 | 11.339  | 6.305   | 5.581   | 18.085  |
|    | HEMBA1003597 | 48.561  | 25.846  | 108.491 | 20.931 | 15.952  | 19.375  | 17.580  | 20.153  |
|    | HEMBA1003598 | 49.728  | 20.134  | 22.468  | 12.142 | 11.688  | 18.934  | 21.743  | 15.025  |
| 35 | HEMBA1003600 | 32.772  | 35.099  | 56.905  | 26.268 | 29.290  | 38.873  | 53.305  | 56.783  |
|    | HEMBA1003602 | 18.248  | 10.116  | 16.162  | 6.182  | 10.970  | 8.064   | 14.736  | 17.188  |
|    | HEMBA1003604 | 205.949 | 53.579  | 69.723  | 24.549 | 49.902  | 105.181 | 98.166  | 47.144  |
|    | HEMBA1003610 | 140.996 | 29.255  | 95.048  | 15.492 | 103.150 | 72.233  | 54.670  | 30.688  |
|    | HEMBA1003615 | 57.258  | 20.035  | 34.102  | 12.808 | 16.022  | 24.378  | 18.759  | 20.876  |
|    | HEMBA1003617 | 48.414  | 20.375  | 29.789  | 12.148 | 22.291  | 18.199  | 18.770  | 18.242  |
|    | HEMBA1003620 | 52.899  | 22.318  | 45.502  | 19.575 | 19.962  | 25.239  | 39.072  | 29.451  |
| 40 | HEMBA1003621 | 102.827 | 102.094 | 226.373 | 80.194 | 64.742  | 58.874  | 67.142  | 60.680  |
|    | HEMBA1003622 | 19.815  | 13.838  | 25.009  | 16.055 | 8.339   | 12.261  | 15.369  | 13.833  |
|    | HEMBA1003630 | 20.008  | 16.381  | 30.244  | 13.871 | 5.573   | 9.992   | 10.303  | 11.422  |
|    | HEMBA1003637 | 37.880  | 29.848  | 106.379 | 23.251 | 18.468  | 17.181  | 12.409  | 18.500  |
|    | HEMBA1003640 | 39.068  | 31.672  | 100.901 | 22.572 | 22.223  | 21.513  | 17.417  | 20.420  |
|    | HEMBA1003645 | 25.820  | 19.380  | 48.445  | 13.481 | 9.247   | 12.142  | 54.230  | 5.711   |
| 45 | HEMBA1003646 | 38.243  | 16.329  | 22.003  | 9.624  | 13.311  | 24.606  | 19.177  | 19.938  |
|    | HEMBA1003647 | 10.261  | 10.718  | 12.323  | 7.860  | 7.892   | 7.607   | 7.882   | 10.058  |
|    | HEMBA1003656 | 40.171  | 31.269  | 66.874  | 28.981 | 19.429  | 18.898  | 23.172  | 30.178  |
|    | HEMBA1003662 | 25.325  | 17.011  | 19.352  | 6.387  | 10.041  | 10.909  | 14.055  | 18.544  |
|    | HEMBA1003666 | 23.086  | 11.187  | 17.407  | 5.803  | 8.262   | 9.774   | 15.332  | 13.851  |
|    | HEMBA1003667 | 304.975 | 209.929 | 337.134 | 96.636 | 131.792 | 179.317 | 140.769 | 174.256 |
| 50 | HEMBA1003670 | 12.944  | 8.894   | 15.235  | 3.344  | 2.565   | 7.057   | 6.425   | 7.073   |
|    | HEMBA1003674 | 143.262 | 32.196  | 51.919  | 33.863 | 62.734  | 66.675  | 65.424  | 47.173  |
|    | HEMBA1003677 | 80.516  | 45.946  | 220.695 | 45.985 | 43.474  | 38.916  | 30.594  | 46.808  |
|    | HEMBA1003679 | 25.325  | 7.795   | 16.167  | 6.727  | 5.941   | 12.433  | 12.034  | 11.720  |
|    | HEMBA1003680 | 42.317  | 25.723  | 33.794  | 24.664 | 23.985  | 25.419  | 38.990  | 39.343  |
|    | HEMBA1003684 | 18.273  | 10.175  | 17.733  | 13.315 | 4.937   | 9.099   | 10.182  | 10.574  |
| 55 | HEMBA1003690 | 115.021 | 65.531  | 75.876  | 46.324 | 43.039  | 71.797  | 85.431  | 56.592  |



Table 27

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1003692 | 83.253  | 96.347  | 194.372 | 63.188  | 40.872  | 47.354  | 39.288  | 42.644  |
|    | HEMBA1003702 | 88.125  | 35.028  | 48.251  | 23.719  | 29.023  | 42.879  | 46.956  | 36.550  |
| 5  | HEMBA1003711 | 93.732  | 50.280  | 140.199 | 32.886  | 33.424  | 47.500  | 41.959  | 36.807  |
|    | HEMBA1003714 | 75.923  | 20.696  | 37.340  | 14.414  | 28.237  | 32.029  | 29.145  | 16.214  |
|    | HEMBA1003715 | 54.160  | 54.486  | 142.871 | 31.894  | 31.122  | 28.832  | 20.640  | 26.672  |
|    | HEMBA1003717 | 70.553  | 38.574  | 120.922 | 45.101  | 29.491  | 29.344  | 27.200  | 38.418  |
|    | HEMBA1003720 | 83.687  | 94.829  | 133.285 | 55.896  | 49.519  | 43.330  | 22.099  | 41.137  |
|    | HEMBA1003725 | 46.157  | 55.932  | 71.704  | 30.085  | 21.305  | 22.378  | 18.643  | 31.573  |
| 10 | HEMBA1003728 | 103.795 | 35.668  | 58.184  | 16.485  | 21.818  | 42.286  | 37.790  | 34.280  |
|    | HEMBA1003729 | 49.957  | 21.508  | 47.663  | 20.231  | 15.376  | 18.567  | 21.294  | 17.427  |
|    | HEMBA1003732 | 13.069  | 1.953   | 6.558   | 3.228   | 2.195   | 3.652   | 3.024   | 4.336   |
|    | HEMBA1003733 | 52.409  | 32.781  | 76.684  | 22.919  | 83.426  | 18.921  | 13.867  | 14.220  |
|    | HEMBA1003742 | 40.426  | 20.265  | 50.667  | 26.589  | 21.518  | 42.057  | 44.130  | 24.802  |
|    | HEMBA1003743 | 26.918  | 22.118  | 23.392  | 18.886  | 18.530  | 12.506  | 17.162  | 18.069  |
| 15 | HEMBA1003758 | 110.630 | 126.359 | 315.104 | 79.435  | 58.130  | 58.587  | 34.868  | 73.429  |
|    | HEMBA1003760 | 78.949  | 0.000   | 26.318  | 15.194  | 14.440  | 32.057  | 34.468  | 19.471  |
|    | HEMBA1003764 | 45.855  | 30.390  | 82.720  | 23.891  | 19.630  | 164.051 | 37.797  | 57.861  |
|    | HEMBA1003769 | 87.589  | 47.227  | 62.942  | 27.144  | 32.047  | 46.499  | 39.296  | 38.944  |
|    | HEMBA1003773 | 63.842  | 14.722  | 21.132  | 12.002  | 9.850   | 33.904  | 29.817  | 13.165  |
|    | HEMBA1003783 | 17.751  | 16.975  | 23.942  | 16.465  | 13.884  | 6.842   | 9.757   | 20.650  |
|    | HEMBA1003784 | 13.500  | 17.233  | 21.849  | 13.856  | 12.436  | 17.394  | 11.099  | 13.140  |
| 20 | HEMBA1003794 | 386.642 | 303.008 | 322.299 | 109.371 | 145.316 | 286.778 | 287.377 | 239.938 |
|    | HEMBA1003799 | 39.392  | 23.099  | 29.603  | 15.022  | 13.775  | 16.550  | 24.428  | 19.403  |
|    | HEMBA1003803 | 63.548  | 21.899  | 44.323  | 20.132  | 18.580  | 28.795  | 24.744  | 35.938  |
|    | HEMBA1003804 | 80.382  | 26.816  | 48.558  | 16.154  | 27.867  | 31.087  | 37.611  | 22.634  |
|    | HEMBA1003805 | 103.669 | 42.485  | 42.930  | 19.994  | 36.377  | 43.797  | 32.147  | 28.376  |
| 25 | HEMBA1003807 | 21.717  | 13.940  | 25.512  | 9.492   | 6.870   | 9.649   | 8.812   | 7.611   |
|    | HEMBA1003810 | 20.102  | 11.572  | 7.558   | 20.338  | 17.855  | 7.640   | 4.451   | 6.585   |
|    | HEMBA1003827 | 432.964 | 219.520 | 240.291 | 155.416 | 219.584 | 266.037 | 283.204 | 241.127 |
|    | HEMBA1003836 | 177.311 | 135.831 | 482.334 | 146.466 | 136.063 | 93.790  | 92.728  | 122.237 |
|    | HEMBA1003838 | 223.674 | 185.295 | 641.368 | 134.002 | 79.993  | 115.711 | 87.137  | 118.957 |
|    | HEMBA1003843 | 13.867  | 10.178  | 27.409  | 17.850  | 21.104  | 13.382  | 11.701  | 13.634  |
| 30 | HEMBA1003846 | 133.994 | 57.556  | 58.738  | 34.962  | 50.550  | 56.395  | 40.861  | 60.253  |
|    | HEMBA1003856 | 27.378  | 13.868  | 16.982  | 14.248  | 8.662   | 11.259  | 9.145   | 9.934   |
|    | HEMBA1003857 | 101.908 | 95.527  | 253.525 | 75.110  | 52.628  | 51.958  | 45.837  | 48.871  |
|    | HEMBA1003864 | 52.130  | 18.071  | 24.567  | 9.568   | 13.009  | 16.810  | 29.271  | 16.795  |
|    | HEMBA1003866 | 27.257  | 12.805  | 22.440  | 12.069  | 15.414  | 19.103  | 9.229   | 7.524   |
|    | HEMBA1003868 | 95.701  | 54.991  | 58.923  | 31.090  | 41.733  | 69.461  | 48.174  | 43.486  |
|    | HEMBA1003879 | 62.950  | 44.572  | 159.217 | 48.098  | 42.446  | 37.097  | 36.010  | 45.824  |
| 35 | HEMBA1003880 | 134.462 | 70.074  | 103.271 | 50.699  | 47.956  | 67.668  | 44.498  | 30.581  |
|    | HEMBA1003884 | 99.190  | 48.465  | 73.499  | 34.796  | 54.399  | 57.269  | 63.551  | 68.830  |
|    | HEMBA1003885 | 77.675  | 69.096  | 172.968 | 55.129  | 49.424  | 41.309  | 24.247  | 31.596  |
|    | HEMBA1003887 | 60.203  | 22.185  | 33.582  | 16.896  | 21.181  | 29.281  | 31.275  | 22.835  |
|    | HEMBA1003890 | 12.753  | 8.056   | 15.506  | 7.762   | 16.057  | 139.271 | 387.408 | 5.124   |
|    | HEMBA1003893 | 386.525 | 281.955 | 515.307 | 187.300 | 180.355 | 212.964 | 137.297 | 122.335 |
| 40 | HEMBA1003896 | 411.418 | 232.899 | 382.182 | 144.104 | 165.806 | 233.857 | 186.700 | 143.577 |
|    | HEMBA1003902 | 39.732  | 39.491  | 114.984 | 20.297  | 23.509  | 16.793  | 14.124  | 20.479  |
|    | HEMBA1003904 | 32.775  | 21.109  | 45.629  | 10.006  | 13.109  | 14.294  | 24.342  | 17.444  |
|    | HEMBA1003908 | 8.660   | 8.873   | 15.689  | 7.298   | 15.429  | 6.307   | 2.267   | 5.699   |
|    | HEMBA1003926 | 132.636 | 253.614 | 316.882 | 183.017 | 124.195 | 147.955 | 105.962 | 360.995 |
|    | HEMBA1003937 | 87.005  | 63.862  | 200.940 | 40.687  | 36.238  | 35.284  | 29.695  | 40.418  |
| 45 | HEMBA1003939 | 28.064  | 25.844  | 35.675  | 20.306  | 20.378  | 19.070  | 16.457  | 15.626  |
|    | HEMBA1003940 | 27.800  | 13.368  | 18.045  | 10.235  | 10.394  | 14.633  | 17.733  | 9.868   |
|    | HEMBA1003941 | 57.997  | 16.835  | 24.582  | 17.381  | 15.884  | 23.428  | 19.757  | 13.795  |
|    | HEMBA1003942 | 38.168  | 19.747  | 45.852  | 32.660  | 22.333  | 24.695  | 10.791  | 21.900  |
|    | HEMBA1003945 | 59.457  | 32.900  | 46.079  | 23.037  | 21.163  | 36.632  | 32.279  | 26.903  |
|    | HEMBA1003949 | 12.870  | 13.019  | 20.678  | 7.159   | 38.521  | 442.120 | 272.494 | 21.625  |
|    | HEMBA1003950 | 8.366   | 8.726   | 5.814   | 3.195   | 4.756   | 3.396   | 8.814   | 5.401   |
| 50 | HEMBA1003953 | 23.527  | 10.310  | 11.872  | 9.390   | 8.494   | 10.637  | 10.973  | 5.252   |
|    | HEMBA1003958 | 131.082 | 90.718  | 253.084 | 74.499  | 85.036  | 62.450  | 34.852  | 86.629  |
|    | HEMBA1003959 | 12.105  | 11.228  | 18.520  | 6.548   | 7.960   | 18.122  | 12.612  | 10.591  |
|    | HEMBA1003960 | 53.133  | 29.785  | 31.879  | 18.932  | 16.178  | 21.708  | 32.094  | 35.333  |
|    | HEMBA1003966 | 58.245  | 19.415  | 68.506  | 20.791  | 26.975  | 28.975  | 27.825  | 25.303  |
| 55 | HEMBA1003967 | 1.859   | 3.908   | 9.364   | 6.033   | 4.054   | 4.384   | 4.208   | 4.986   |

Table 28

|    |              |         |         |         |         |         |        |         |         |
|----|--------------|---------|---------|---------|---------|---------|--------|---------|---------|
|    | HEMBA1003968 | 40.219  | 26.894  | 55.357  | 16.296  | 14.511  | 28.531 | 22.648  | 15.420  |
|    | HEMBA1003974 | 147.167 | 439.547 | 139.030 | 117.010 | 33.973  | 54.122 | 29.356  | 338.820 |
| 5  | HEMBA1003976 | 20.167  | 17.809  | 13.159  | 9.187   | 5.748   | 6.820  | 6.962   | 10.367  |
|    | HEMBA1003977 | 32.761  | 12.350  | 24.212  | 6.558   | 6.776   | 12.413 | 17.016  | 9.367   |
|    | HEMBA1003978 | 40.564  | 13.858  | 10.812  | 11.585  | 11.203  | 23.881 | 20.489  | 17.488  |
|    | HEMBA1003981 | 65.803  | 34.462  | 71.399  | 26.801  | 31.348  | 48.051 | 31.355  | 42.728  |
|    | HEMBA1003982 | 15.104  | 89.360  | 20.946  | 18.086  | 1.620   | 3.781  | 3.102   | 64.356  |
|    | HEMBA1003985 | 15.199  | 10.866  | 21.715  | 9.199   | 1.517   | 8.041  | 5.977   | 7.569   |
| 10 | HEMBA1003987 | 48.695  | 30.080  | 108.473 | 25.632  | 23.222  | 28.008 | 21.302  | 24.940  |
|    | HEMBA1003989 | 47.841  | 51.466  | 128.889 | 32.288  | 24.298  | 24.627 | 15.392  | 23.174  |
|    | HEMBA1004000 | 36.424  | 35.098  | 34.843  | 16.292  | 19.541  | 20.604 | 16.803  | 21.872  |
|    | HEMBA1004006 | 8.411   | 42.393  | 12.931  | 2.863   | 3.395   | 0.000  | 4.943   | 9.742   |
|    | HEMBA1004007 | 135.300 | 114.014 | 286.000 | 90.971  | 64.473  | 74.153 | 71.985  | 79.319  |
|    | HEMBA1004010 | 58.331  | 152.845 | 38.786  | 18.676  | 18.819  | 35.229 | 31.514  | 80.599  |
| 15 | HEMBA1004011 | 62.306  | 16.294  | 38.336  | 12.356  | 13.756  | 29.683 | 26.091  | 7.986   |
|    | HEMBA1004012 | 47.010  | 38.053  | 139.110 | 42.415  | 22.159  | 34.340 | 27.215  | 32.550  |
|    | HEMBA1004015 | 24.416  | 26.249  | 27.372  | 12.243  | 13.962  | 25.082 | 25.133  | 12.269  |
|    | HEMBA1004024 | 149.457 | 114.788 | 479.037 | 80.679  | 77.896  | 75.066 | 57.366  | 93.859  |
|    | HEMBA1004029 | 81.485  | 31.944  | 43.520  | 19.897  | 20.191  | 38.768 | 36.482  | 19.376  |
|    | HEMBA1004038 | 26.629  | 15.823  | 19.708  | 12.109  | 7.832   | 14.400 | 12.855  | 17.771  |
| 20 | HEMBA1004042 | 8.177   | 10.678  | 12.830  | 6.612   | 11.484  | 7.963  | 11.320  | 10.405  |
|    | HEMBA1004045 | 24.675  | 30.855  | 37.128  | 20.069  | 23.538  | 15.509 | 17.299  | 17.447  |
|    | HEMBA1004048 | 95.795  | 48.977  | 78.760  | 36.608  | 40.779  | 45.132 | 47.334  | 63.844  |
|    | HEMBA1004049 | 55.947  | 543.954 | 47.428  | 49.034  | 19.297  | 56.209 | 23.320  | 68.865  |
|    | HEMBA1004051 | 69.776  | 31.608  | 51.948  | 13.046  | 25.684  | 38.632 | 30.423  | 32.553  |
|    | HEMBA1004053 | 29.222  | 70.670  | 84.481  | 24.394  | 15.007  | 23.414 | 13.218  | 23.973  |
| 25 | HEMBA1004055 | 39.564  | 23.202  | 34.928  | 8.151   | 5.353   | 28.619 | 15.237  | 14.807  |
|    | HEMBA1004056 | 136.121 | 122.072 | 413.353 | 75.363  | 81.883  | 66.439 | 41.004  | 85.794  |
|    | HEMBA1004060 | 17.642  | 11.826  | 29.995  | 9.507   | 4.910   | 13.895 | 8.679   | 8.388   |
|    | HEMBA1004061 | 17.144  | 13.460  | 20.009  | 16.913  | 8.228   | 14.145 | 12.424  | 5.810   |
| 30 | HEMBA1004067 | 165.029 | 79.589  | 104.390 | 62.419  | 50.783  | 89.115 | 94.004  | 91.850  |
|    | HEMBA1004071 | 28.405  | 34.722  | 37.707  | 19.775  | 14.692  | 17.342 | 23.864  | 27.554  |
|    | HEMBA1004074 | 128.445 | 51.388  | 148.050 | 35.606  | 37.851  | 50.216 | 53.461  | 46.373  |
|    | HEMBA1004078 | 26.126  | 14.714  | 20.940  | 9.721   | 16.211  | 17.398 | 17.388  | 14.057  |
|    | HEMBA1004085 | 42.006  | 24.067  | 36.862  | 15.417  | 17.609  | 19.555 | 28.362  | 21.993  |
|    | HEMBA1004086 | 27.330  | 49.843  | 21.238  | 43.213  | 24.232  | 16.260 | 12.409  | 22.262  |
|    | HEMBA1004097 | 45.296  | 15.292  | 27.795  | 13.971  | 26.928  | 26.002 | 33.192  | 19.361  |
|    | HEMBA1004100 | 40.930  | 37.210  | 48.942  | 23.245  | 10.184  | 25.744 | 21.452  | 28.594  |
| 35 | HEMBA1004103 | 101.036 | 101.281 | 184.668 | 64.176  | 44.322  | 55.385 | 41.050  | 40.000  |
|    | HEMBA1004110 | 89.903  | 65.107  | 57.751  | 43.841  | 27.836  | 21.315 | 27.631  | 34.280  |
|    | HEMBA1004111 | 171.907 | 134.108 | 296.310 | 95.474  | 115.874 | 78.450 | 80.011  | 98.760  |
|    | HEMBA1004124 | 177.408 | 71.838  | 103.065 | 37.865  | 46.198  | 68.531 | 109.364 | 77.083  |
|    | HEMBA1004130 | 64.543  | 54.797  | 171.602 | 50.628  | 35.382  | 25.601 | 19.599  | 23.097  |
|    | HEMBA1004131 | 41.654  | 24.184  | 33.975  | 26.913  | 23.365  | 28.790 | 20.022  | 24.999  |
| 40 | HEMBA1004132 | 55.906  | 42.840  | 162.243 | 42.708  | 30.251  | 28.863 | 19.780  | 22.237  |
|    | HEMBA1004133 | 64.624  | 30.838  | 38.522  | 29.390  | 20.897  | 28.027 | 28.747  | 33.333  |
|    | HEMBA1004138 | 61.197  | 21.853  | 23.858  | 17.376  | 9.337   | 30.080 | 17.345  | 22.082  |
|    | HEMBA1004143 | 15.715  | 9.656   | 21.209  | 10.565  | 10.539  | 14.067 | 11.441  | 9.994   |
|    | HEMBA1004146 | 40.893  | 21.789  | 90.537  | 30.633  | 32.870  | 23.542 | 14.368  | 20.982  |
|    | HEMBA1004148 | 59.990  | 18.796  | 22.167  | 11.049  | 17.531  | 18.309 | 29.374  | 22.628  |
|    | HEMBA1004149 | 16.284  | 11.131  | 18.385  | 7.758   | 7.634   | 7.677  | 5.890   | 13.683  |
| 45 | HEMBA1004150 | 5.223   | 4.403   | 4.468   | 3.044   | 2.553   | 2.158  | 2.062   | 2.260   |
|    | HEMBA1004154 | 111.110 | 40.836  | 69.965  | 31.437  | 46.253  | 58.472 | 62.983  | 47.866  |
|    | HEMBA1004164 | 139.670 | 107.565 | 315.189 | 77.326  | 47.327  | 57.372 | 46.726  | 67.257  |
|    | HEMBA1004168 | 24.042  | 16.630  | 18.698  | 9.347   | 9.400   | 13.838 | 3.054   | 13.060  |
|    | HEMBA1004199 | 22.894  | 9.047   | 10.461  | 8.631   | 7.704   | 7.849  | 6.889   | 7.253   |
|    | HEMBA1004200 | 33.301  | 51.362  | 83.462  | 26.185  | 27.548  | 17.580 | 17.235  | 32.109  |
| 50 | HEMBA1004201 | 54.766  | 23.783  | 32.370  | 17.449  | 21.835  | 22.123 | 25.993  | 20.006  |
|    | HEMBA1004202 | 14.526  | 10.484  | 12.784  | 6.804   | 5.704   | 9.594  | 8.672   | 11.673  |
|    | HEMBA1004203 | 47.655  | 20.140  | 34.882  | 13.604  | 14.171  | 19.946 | 16.079  | 18.151  |
|    | HEMBA1004207 | 6.344   | 3.206   | 11.421  | 3.936   | 6.145   | 5.704  | 21.692  | 7.780   |
|    | HEMBA1004210 | 33.071  | 43.543  | 33.120  | 16.340  | 41.396  | 21.814 | 19.639  | 15.015  |
|    | HEMBA1004225 | 73.182  | 63.749  | 226.133 | 59.565  | 43.156  | 32.703 | 25.781  | 40.078  |
| 55 | HEMBA1004227 | 83.820  | 31.222  | 42.541  | 16.931  | 17.786  | 28.177 | 25.468  | 30.978  |

Table 29

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1004235 | 99.954  | 57.144  | 62.536  | 27.672  | 34.345  | 69.613  | 47.182  | 38.807  |
|    | HEMBA1004237 | 27.504  | 21.542  | 17.029  | 18.289  | 11.697  | 19.212  | 12.031  | 16.922  |
| 5  | HEMBA1004238 | 79.210  | 38.454  | 102.493 | 34.130  | 27.841  | 36.089  | 27.438  | 34.578  |
|    | HEMBA1004241 | 5.663   | 2.654   | 7.035   | 2.556   | 1.072   | 2.912   | 4.422   | 1.294   |
|    | HEMBA1004242 | 256.862 | 65.757  | 191.327 | 80.010  | 76.455  | 85.478  | 89.242  | 62.567  |
|    | HEMBA1004243 | 72.699  | 55.276  | 60.764  | 28.287  | 47.148  | 36.800  | 28.491  | 47.743  |
|    | HEMBA1004246 | 44.915  | 30.967  | 100.300 | 22.414  | 17.109  | 15.470  | 12.686  | 18.700  |
|    | HEMBA1004247 | 66.750  | 16.238  | 24.674  | 18.889  | 22.763  | 31.897  | 38.415  | 17.377  |
| 10 | HEMBA1004248 | 13.953  | 18.412  | 17.581  | 11.953  | 11.378  | 14.538  | 12.794  | 9.562   |
|    | HEMBA1004250 | 24.439  | 10.494  | 10.631  | 6.401   | 5.142   | 14.218  | 12.652  | 11.966  |
|    | HEMBA1004252 | 37.349  | 20.650  | 22.246  | 9.949   | 9.550   | 14.570  | 21.841  | 18.200  |
|    | HEMBA1004260 | 10.994  | 19.320  | 16.415  | 15.707  | 20.374  | 13.845  | 11.265  | 19.838  |
|    | HEMBA1004264 | 22.716  | 14.715  | 13.358  | 7.615   | 5.234   | 12.282  | 15.089  | 11.397  |
|    | HEMBA1004267 | 235.310 | 195.750 | 654.331 | 171.071 | 174.292 | 115.073 | 102.973 | 144.125 |
| 15 | HEMBA1004272 | 28.776  | 19.025  | 23.678  | 13.063  | 12.012  | 15.529  | 14.123  | 14.593  |
|    | HEMBA1004274 | 62.157  | 50.491  | 53.598  | 30.356  | 36.472  | 42.005  | 58.020  | 51.617  |
|    | HEMBA1004275 | 70.423  | 38.514  | 45.176  | 17.443  | 18.132  | 34.031  | 36.295  | 22.171  |
|    | HEMBA1004276 | 33.630  | 4.481   | 14.011  | 9.548   | 9.099   | 14.035  | 10.406  | 8.615   |
|    | HEMBA1004279 | 16.536  | 11.082  | 13.356  | 14.834  | 7.333   | 10.255  | 8.919   | 12.068  |
|    | HEMBA1004284 | 29.688  | 30.297  | 64.483  | 13.658  | 17.646  | 17.327  | 17.630  | 13.770  |
|    | HEMBA1004286 | 32.471  | 16.565  | 18.049  | 12.391  | 6.773   | 17.625  | 23.811  | 13.547  |
| 20 | HEMBA1004289 | 81.573  | 62.930  | 165.571 | 49.704  | 34.785  | 37.379  | 28.939  | 41.740  |
|    | HEMBA1004293 | 72.466  | 34.902  | 48.669  | 32.705  | 17.408  | 57.764  | 53.695  | 45.065  |
|    | HEMBA1004295 | 37.595  | 12.116  | 29.975  | 11.634  | 5.514   | 25.018  | 23.797  | 20.926  |
|    | HEMBA1004302 | 10.880  | 5.912   | 7.885   | 10.025  | 5.190   | 6.060   | 5.264   | 9.355   |
|    | HEMBA1004306 | 426.811 | 177.321 | 335.168 | 107.646 | 123.947 | 256.397 | 251.772 | 134.005 |
| 25 | HEMBA1004312 | 37.953  | 30.864  | 105.533 | 30.747  | 25.847  | 16.140  | 16.283  | 24.272  |
|    | HEMBA1004314 | 29.396  | 23.332  | 95.584  | 22.179  | 18.544  | 11.015  | 8.804   | 20.974  |
|    | HEMBA1004321 | 47.670  | 29.150  | 105.316 | 35.655  | 23.139  | 31.309  | 29.736  | 47.858  |
|    | HEMBA1004323 | 87.295  | 65.931  | 221.440 | 44.690  | 41.425  | 36.609  | 34.117  | 39.135  |
|    | HEMBA1004327 | 65.869  | 21.284  | 21.540  | 11.985  | 14.419  | 27.213  | 27.030  | 20.118  |
|    | HEMBA1004329 | 67.920  | 44.687  | 132.755 | 32.977  | 21.556  | 32.356  | 17.478  | 26.773  |
| 30 | HEMBA1004330 | 8.765   | 7.655   | 16.827  | 7.164   | 3.843   | 9.511   | 7.660   | 4.615   |
|    | HEMBA1004334 | 16.438  | 21.355  | 31.680  | 15.109  | 26.670  | 13.368  | 10.581  | 13.568  |
|    | HEMBA1004335 | 204.961 | 102.859 | 325.226 | 69.979  | 64.392  | 78.772  | 71.641  | 83.525  |
|    | HEMBA1004341 | 186.677 | 30.208  | 61.439  | 15.995  | 41.404  | 87.221  | 89.558  | 40.224  |
|    | HEMBA1004344 | 261.676 | 76.316  | 123.332 | 42.705  | 51.432  | 26.797  | 42.054  | 59.071  |
|    | HEMBA1004347 | 65.249  | 32.610  | 97.858  | 37.038  | 21.953  | 33.115  | 33.526  | 36.846  |
|    | HEMBA1004349 | 22.353  | 35.727  | 29.441  | 19.803  | 18.786  | 23.126  | 19.103  | 18.719  |
| 35 | HEMBA1004352 | 75.508  | 65.544  | 237.050 | 49.039  | 34.141  | 32.597  | 28.166  | 46.343  |
|    | HEMBA1004353 | 54.322  | 66.042  | 132.169 | 40.563  | 27.380  | 39.551  | 30.556  | 56.886  |
|    | HEMBA1004354 | 43.687  | 29.352  | 79.264  | 22.784  | 20.533  | 21.755  | 16.860  | 22.429  |
|    | HEMBA1004356 | 44.730  | 22.201  | 27.487  | 10.404  | 8.280   | 22.159  | 16.039  | 15.038  |
|    | HEMBA1004360 | 91.412  | 28.429  | 71.634  | 26.232  | 36.259  | 59.602  | 38.361  | 50.410  |
|    | HEMBA1004366 | 9.956   | 10.099  | 14.263  | 5.481   | 5.631   | 6.802   | 6.791   | 6.167   |
| 40 | HEMBA1004372 | 3.613   | 4.593   | 5.338   | 0.000   | 1.638   | 1.507   | 3.555   | 1.568   |
|    | HEMBA1004377 | 53.834  | 41.410  | 47.048  | 29.140  | 26.163  | 34.545  | 30.827  | 33.572  |
|    | HEMBA1004389 | 20.540  | 22.800  | 24.474  | 14.497  | 13.968  | 16.620  | 14.951  | 17.114  |
|    | HEMBA1004391 | 60.284  | 22.653  | 44.013  | 14.283  | 19.018  | 31.716  | 23.931  | 23.617  |
|    | HEMBA1004393 | 177.786 | 197.548 | 108.554 | 32.455  | 75.399  | 76.587  | 39.777  | 44.665  |
|    | HEMBA1004394 | 28.949  | 11.849  | 12.442  | 5.544   | 10.440  | 17.825  | 10.981  | 8.836   |
| 45 | HEMBA1004396 | 37.907  | 26.956  | 102.760 | 18.571  | 16.519  | 15.025  | 13.681  | 21.980  |
|    | HEMBA1004401 | 22.519  | 21.858  | 30.601  | 14.945  | 13.592  | 15.418  | 20.530  | 20.774  |
|    | HEMBA1004405 | 42.933  | 38.835  | 117.844 | 34.528  | 23.557  | 19.155  | 18.506  | 29.842  |
|    | HEMBA1004408 | 50.497  | 27.151  | 55.000  | 25.559  | 15.351  | 19.522  | 15.546  | 20.863  |
|    | HEMBA1004414 | 45.769  | 51.722  | 64.316  | 19.655  | 19.324  | 39.735  | 26.527  | 36.385  |
|    | HEMBA1004429 | 61.867  | 59.067  | 190.058 | 39.014  | 50.304  | 38.462  | 27.517  | 46.317  |
| 50 | HEMBA1004433 | 49.568  | 39.828  | 146.938 | 37.521  | 28.383  | 24.241  | 24.651  | 42.005  |
|    | HEMBA1004440 | 31.849  | 22.499  | 37.132  | 18.742  | 22.366  | 23.183  | 21.969  | 35.073  |
|    | HEMBA1004444 | 59.488  | 46.586  | 163.763 | 30.695  | 29.990  | 24.833  | 22.908  | 37.635  |
|    | HEMBA1004446 | 22.134  | 12.309  | 29.426  | 11.920  | 3.385   | 14.862  | 10.855  | 16.078  |
|    | HEMBA1004451 | 31.688  | 21.261  | 28.136  | 18.194  | 15.678  | 19.695  | 21.159  | 27.156  |
|    | HEMBA1004452 | 36.593  | 5.268   | 18.479  | 3.443   | 5.737   | 17.680  | 14.173  | 7.972   |
| 55 | HEMBA1004454 | 50.056  | 27.897  | 32.786  | 24.382  | 20.631  | 24.494  | 22.897  | 29.042  |

Table 30

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1004460 | 138.550 | 96.143  | 356.058 | 74.883  | 54.735  | 70.698  | 38.344  | 55.945  |
|    | HEMBA1004461 | 64.074  | 19.163  | 24.808  | 12.846  | 16.373  | 23.508  | 22.827  | 10.137  |
| 5  | HEMBA1004468 | 134.439 | 72.774  | 210.409 | 77.409  | 60.142  | 56.229  | 42.361  | 49.457  |
|    | HEMBA1004479 | 82.994  | 32.899  | 92.282  | 35.519  | 44.435  | 43.183  | 31.836  | 37.116  |
|    | HEMBA1004482 | 5.602   | 7.682   | 11.248  | 36.034  | 2.926   | 5.535   | 5.693   | 5.972   |
|    | HEMBA1004491 | 16.736  | 6.285   | 17.615  | 14.018  | 11.729  | 19.804  | 10.683  | 11.280  |
|    | HEMBA1004499 | 94.095  | 71.456  | 148.355 | 58.479  | 48.596  | 46.968  | 46.648  | 57.279  |
|    | HEMBA1004502 | 21.523  | 9.344   | 18.265  | 7.282   | 9.979   | 2.762   | 3.174   | 13.389  |
| 10 | HEMBA1004505 | 26.042  | 15.980  | 43.855  | 17.516  | 15.469  | 22.190  | 22.873  | 15.812  |
|    | HEMBA1004508 | 12.004  | 29.395  | 42.664  | 21.849  | 21.426  | 14.469  | 9.224   | 9.845   |
|    | HEMBA1004507 | 96.377  | 87.688  | 99.177  | 103.472 | 34.160  | 81.068  | 54.939  | 151.142 |
|    | HEMBA1004509 | 52.657  | 14.880  | 19.120  | 16.228  | 17.009  | 24.783  | 24.565  | 13.476  |
|    | HEMBA1004523 | 20.156  | 18.209  | 11.197  | 16.529  | 14.651  | 13.004  | 20.267  | 19.467  |
|    | HEMBA1004528 | 42.620  | 27.819  | 48.069  | 14.426  | 25.267  | 43.038  | 40.239  | 37.718  |
| 15 | HEMBA1004534 | 75.090  | 41.159  | 44.399  | 31.300  | 16.686  | 31.317  | 21.009  | 18.589  |
|    | HEMBA1004536 | 31.531  | 13.343  | 23.664  | 14.085  | 4.408   | 13.133  | 12.981  | 15.201  |
|    | HEMBA1004538 | 352.363 | 181.508 | 233.819 | 97.018  | 122.402 | 183.507 | 100.197 | 150.062 |
|    | HEMBA1004542 | 47.360  | 17.733  | 29.238  | 17.280  | 12.324  | 17.317  | 22.764  | 15.212  |
|    | HEMBA1004552 | 63.401  | 29.585  | 26.857  | 43.567  | 39.674  | 38.686  | 23.830  | 33.542  |
|    | HEMBA1004554 | 62.231  | 11.953  | 25.084  | 16.273  | 32.820  | 33.809  | 20.812  | 5.536   |
| 20 | HEMBA1004558 | 30.217  | 12.133  | 31.036  | 15.840  | 30.638  | 65.183  | 19.155  | 30.921  |
|    | HEMBA1004560 | 68.901  | 16.566  | 17.908  | 16.431  | 10.034  | 30.093  | 22.379  | 22.683  |
|    | HEMBA1004564 | 48.119  | 14.911  | 35.565  | 31.983  | 32.464  | 30.028  | 20.965  | 32.479  |
|    | HEMBA1004566 | 32.479  | 29.553  | 20.970  | 32.788  | 42.949  | 40.715  | 23.273  | 32.960  |
|    | HEMBA1004573 | 17.728  | 13.843  | 7.118   | 9.972   | 19.952  | 9.755   | 9.278   | 8.100   |
|    | HEMBA1004576 | 39.572  | 26.733  | 42.044  | 10.704  | 37.505  | 32.441  | 17.232  | 25.361  |
| 25 | HEMBA1004577 | 46.233  | 11.570  | 97.881  | 39.434  | 13.437  | 41.089  | 34.426  | 35.314  |
|    | HEMBA1004586 | 82.532  | 71.398  | 213.814 | 70.289  | 52.589  | 45.729  | 23.395  | 38.312  |
|    | HEMBA1004596 | 72.534  | 32.493  | 45.820  | 27.585  | 27.854  | 34.997  | 33.847  | 38.473  |
|    | HEMBA1004604 | 99.019  | 48.582  | 103.587 | 36.723  | 49.392  | 48.377  | 56.558  | 69.256  |
|    | HEMBA1004607 | 53.557  | 37.013  | 100.999 | 27.559  | 26.143  | 28.796  | 21.692  | 42.044  |
|    | HEMBA1004610 | 20.690  | 14.854  | 69.908  | 15.349  | 12.120  | 9.108   | 8.858   | 15.087  |
| 30 | HEMBA1004617 | 22.592  | 20.386  | 42.426  | 22.819  | 15.568  | 10.691  | 6.697   | 10.317  |
|    | HEMBA1004622 | 78.025  | 46.803  | 209.059 | 49.931  | 29.836  | 29.902  | 12.194  | 27.438  |
|    | HEMBA1004626 | 38.170  | 36.312  | 110.684 | 22.791  | 14.118  | 17.193  | 15.579  | 20.821  |
|    | HEMBA1004629 | 33.858  | 37.886  | 87.440  | 53.228  | 47.341  | 28.160  | 12.170  | 28.096  |
|    | HEMBA1004631 | 35.946  | 10.475  | 4.434   | 7.390   | 17.128  | 22.775  | 9.569   | 32.852  |
|    | HEMBA1004632 | 27.084  | 13.891  | 23.598  | 10.209  | 7.802   | 11.754  | 22.566  | 6.362   |
|    | HEMBA1004633 | 78.391  | 33.135  | 114.054 | 17.197  | 49.008  | 60.659  | 48.857  | 40.810  |
| 35 | HEMBA1004636 | 52.397  | 20.706  | 34.962  | 10.085  | 22.609  | 21.255  | 13.502  | 25.039  |
|    | HEMBA1004637 | 4.228   | 4.304   | 6.747   | 5.278   | 9.756   | 4.086   | 2.597   | 5.024   |
|    | HEMBA1004638 | 0.241   | 0.000   | 0.000   | 1.008   | 0.000   | 0.000   | 0.113   | 0.000   |
|    | HEMBA1004645 | 57.971  | 29.263  | 111.067 | 32.645  | 17.998  | 27.214  | 20.560  | 24.845  |
|    | HEMBA1004656 | 16.139  | 9.194   | 21.399  | 12.766  | 18.216  | 14.099  | 17.122  | 12.004  |
|    | HEMBA1004657 | 20.820  | 23.742  | 69.842  | 9.422   | 138.932 | 42.697  | 9.048   | 13.383  |
| 40 | HEMBA1004666 | 7.321   | 3.174   | 18.097  | 5.962   | 9.830   | 5.098   | 2.525   | 7.512   |
|    | HEMBA1004669 | 94.910  | 36.291  | 111.210 | 30.591  | 20.021  | 28.018  | 25.500  | 25.624  |
|    | HEMBA1004670 | 57.231  | 17.070  | 60.538  | 23.280  | 13.173  | 24.312  | 23.413  | 14.342  |
|    | HEMBA1004672 | 63.471  | 50.154  | 146.619 | 39.883  | 31.559  | 25.617  | 20.328  | 28.099  |
|    | HEMBA1004689 | 152.993 | 93.435  | 103.311 | 81.212  | 50.901  | 83.998  | 57.329  | 84.276  |
|    | HEMBA1004690 | 28.240  | 10.247  | 13.401  | 8.159   | 4.952   | 13.963  | 13.991  | 11.785  |
| 45 | HEMBA1004693 | 18.359  | 15.228  | 20.803  | 14.290  | 13.070  | 16.726  | 9.014   | 13.531  |
|    | HEMBA1004697 | 81.532  | 48.847  | 148.587 | 58.849  | 34.416  | 51.983  | 42.641  | 50.271  |
|    | HEMBA1004702 | 97.518  | 62.966  | 49.904  | 20.714  | 42.224  | 58.936  | 64.906  | 37.506  |
|    | HEMBA1004704 | 99.561  | 48.717  | 236.687 | 38.866  | 33.457  | 38.377  | 24.626  | 31.783  |
|    | HEMBA1004705 | 12.717  | 12.313  | 40.950  | 9.649   | 17.803  | 10.638  | 5.969   | 4.810   |
|    | HEMBA1004706 | 33.616  | 9.825   | 16.175  | 10.779  | 10.830  | 17.906  | 13.036  | 12.703  |
| 50 | HEMBA1004709 | 51.126  | 39.934  | 136.723 | 32.285  | 25.072  | 21.674  | 15.230  | 23.755  |
|    | HEMBA1004711 | 46.766  | 9.203   | 57.020  | 12.805  | 14.304  | 16.154  | 12.982  | 9.790   |
|    | HEMBA1004723 | 121.283 | 47.643  | 73.497  | 30.236  | 56.917  | 65.719  | 56.298  | 52.009  |
|    | HEMBA1004725 | 56.905  | 32.051  | 70.171  | 12.221  | 48.208  | 34.021  | 35.739  | 12.501  |
|    | HEMBA1004730 | 36.072  | 10.037  | 30.016  | 7.633   | 13.361  | 7.545   | 8.989   | 34.832  |
|    | HEMBA1004733 | 30.769  | 29.884  | 23.348  | 6.988   | 2.998   | 8.055   | 8.031   | 2.822   |
| 55 | HEMBA1004734 | 11.912  | 11.974  | 36.595  | 3.988   | 12.556  | 7.653   | 4.303   | 15.670  |

Table 31

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1004736 | 55.309  | 25.331  | 132.333 | 45.653  | 38.696  | 23.516  | 19.970  | 34.509  |
|    | HEMBA1004748 | 53.832  | 20.004  | 172.069 | 29.562  | 22.161  | 14.904  | 12.665  | 18.349  |
| 5  | HEMBA1004749 | 127.285 | 45.137  | 73.698  | 27.788  | 33.184  | 60.214  | 44.636  | 42.250  |
|    | HEMBA1004751 | 81.283  | 64.830  | 173.888 | 54.165  | 36.368  | 41.802  | 31.283  | 43.505  |
|    | HEMBA1004752 | 59.058  | 32.785  | 109.428 | 32.254  | 29.090  | 34.259  | 30.970  | 33.029  |
|    | HEMBA1004753 | 204.044 | 247.466 | 406.165 | 156.689 | 102.755 | 131.323 | 83.515  | 263.882 |
|    | HEMBA1004755 | 57.638  | 59.677  | 83.850  | 22.148  | 29.800  | 30.642  | 13.064  | 23.261  |
|    | HEMBA1004756 | 9.965   | 16.228  | 11.023  | 8.349   | 6.780   | 9.109   | 111.628 | 14.885  |
| 10 | HEMBA1004758 | 36.487  | 26.558  | 116.970 | 22.341  | 14.553  | 14.773  | 11.840  | 14.406  |
|    | HEMBA1004763 | 67.343  | 19.641  | 33.742  | 13.841  | 16.720  | 25.489  | 23.061  | 18.650  |
|    | HEMBA1004768 | 29.177  | 24.043  | 38.303  | 6.673   | 10.298  | 3.197   | 10.352  | 13.391  |
|    | HEMBA1004770 | 10.327  | 14.492  | 10.901  | 6.416   | 6.310   | 7.963   | 10.868  | 7.955   |
|    | HEMBA1004771 | 46.910  | 34.314  | 76.491  | 31.609  | 22.830  | 23.102  | 30.433  | 32.358  |
|    | HEMBA1004775 | 39.253  | 28.706  | 63.968  | 24.931  | 18.754  | 43.049  | 32.720  | 26.795  |
| 15 | HEMBA1004776 | 22.604  | 11.017  | 10.103  | 5.466   | 9.000   | 16.400  | 10.105  | 8.046   |
|    | HEMBA1004778 | 78.144  | 77.681  | 223.475 | 37.540  | 33.791  | 32.337  | 24.067  | 43.529  |
|    | HEMBA1004784 | 9.826   | 18.370  | 102.812 | 8.313   | 15.151  | 11.373  | 9.479   | 6.329   |
|    | HEMBA1004785 | 25.723  | 16.345  | 26.216  | 6.651   | 10.649  | 10.674  | 13.732  | 11.615  |
|    | HEMBA1004789 | 18.173  | 14.508  | 16.096  | 7.804   | 8.691   | 10.011  | 7.713   | 11.389  |
|    | HEMBA1004795 | 14.283  | 12.973  | 25.122  | 11.028  | 9.351   | 9.757   | 9.905   | 12.028  |
| 20 | HEMBA1004797 | 65.927  | 33.745  | 73.888  | 34.142  | 28.246  | 40.067  | 32.715  | 25.583  |
|    | HEMBA1004803 | 36.634  | 41.124  | 65.880  | 27.072  | 30.957  | 22.607  | 22.520  | 26.554  |
|    | HEMBA1004806 | 11.997  | 8.183   | 21.467  | 8.868   | 9.653   | 9.000   | 7.894   | 8.399   |
|    | HEMBA1004807 | 16.352  | 14.481  | 22.459  | 11.249  | 12.009  | 13.340  | 7.935   | 9.118   |
|    | HEMBA1004816 | 29.782  | 24.075  | 95.884  | 18.110  | 29.259  | 8.180   | 12.578  | 10.934  |
|    | HEMBA1004820 | 8.636   | 7.466   | 8.862   | 4.249   | 4.018   | 4.269   | 6.876   | 3.493   |
| 25 | HEMBA1004833 | 159.947 | 50.729  | 81.248  | 38.650  | 64.754  | 83.155  | 56.657  | 65.121  |
|    | HEMBA1004847 | 51.456  | 25.570  | 40.694  | 21.115  | 36.572  | 35.053  | 31.537  | 40.529  |
|    | HEMBA1004850 | 77.254  | 24.014  | 38.620  | 21.854  | 26.080  | 54.413  | 50.197  | 24.185  |
|    | HEMBA1004863 | 57.117  | 32.704  | 72.480  | 23.951  | 31.887  | 25.058  | 20.050  | 20.982  |
|    | HEMBA1004864 | 46.043  | 27.344  | 59.824  | 26.750  | 13.898  | 16.719  | 20.308  | 17.843  |
|    | HEMBA1004865 | 12.257  | 14.642  | 31.748  | 44.090  | 14.331  | 13.454  | 13.835  | 15.797  |
| 30 | HEMBA1004880 | 56.788  | 50.021  | 126.837 | 35.420  | 26.589  | 24.064  | 20.647  | 23.264  |
|    | HEMBA1004882 | 42.450  | 18.453  | 29.340  | 16.782  | 13.013  | 13.652  | 10.676  | 19.977  |
|    | HEMBA1004885 | 8.545   | 4.947   | 5.350   | 4.891   | 2.933   | 3.711   | 3.652   | 6.615   |
|    | HEMBA1004889 | 28.103  | 22.485  | 32.049  | 17.078  | 14.363  | 23.391  | 15.605  | 16.916  |
|    | HEMBA1004900 | 19.922  | 15.709  | 33.254  | 10.423  | 9.045   | 6.539   | 5.245   | 9.440   |
|    | HEMBA1004909 | 88.522  | 49.269  | 163.284 | 48.147  | 35.537  | 36.045  | 18.861  | 27.933  |
| 35 | HEMBA1004918 | 64.384  | 43.134  | 105.868 | 34.899  | 22.323  | 24.073  | 15.857  | 25.370  |
|    | HEMBA1004923 | 47.731  | 37.996  | 69.168  | 19.659  | 26.441  | 18.192  | 10.213  | 20.111  |
|    | HEMBA1004929 | 11.048  | 14.003  | 10.808  | 12.050  | 7.539   | 9.882   | 8.967   | 11.809  |
|    | HEMBA1004930 | 101.277 | 92.425  | 279.652 | 80.664  | 66.618  | 34.331  | 31.091  | 41.874  |
|    | HEMBA1004933 | 9.145   | 5.566   | 12.895  | 7.786   | 12.296  | 10.327  | 96.467  | 5.417   |
|    | HEMBA1004934 | 7.311   | 7.106   | 43.966  | 10.208  | 4.750   | 5.866   | 9.143   | 12.805  |
|    | HEMBA1004937 | 43.331  | 27.219  | 38.802  | 15.368  | 17.734  | 15.280  | 15.784  | 46.365  |
| 40 | HEMBA1004943 | 51.072  | 26.833  | 32.001  | 21.614  | 16.458  | 27.585  | 29.628  | 38.533  |
|    | HEMBA1004944 | 84.363  | 46.788  | 126.294 | 43.803  | 28.989  | 38.514  | 31.589  | 23.074  |
|    | HEMBA1004946 | 64.638  | 28.144  | 37.908  | 17.163  | 24.332  | 27.854  | 34.636  | 31.712  |
|    | HEMBA1004952 | 90.835  | 18.893  | 40.862  | 12.824  | 20.090  | 33.568  | 20.062  | 19.020  |
|    | HEMBA1004954 | 14.656  | 36.003  | 41.485  | 27.126  | 23.696  | 20.777  | 6.946   | 29.261  |
|    | HEMBA1004956 | 5.975   | 9.923   | 6.635   | 7.743   | 0.953   | 4.578   | 1.565   | 5.188   |
| 45 | HEMBA1004960 | 86.030  | 77.420  | 136.061 | 60.735  | 49.221  | 47.560  | 29.646  | 45.929  |
|    | HEMBA1004971 | 31.046  | 5.439   | 7.559   | 12.468  | 17.946  | 16.068  | 19.705  | 18.480  |
|    | HEMBA1004972 | 77.318  | 38.259  | 56.654  | 35.819  | 27.295  | 40.233  | 30.004  | 50.710  |
|    | HEMBA1004973 | 35.524  | 13.502  | 16.731  | 9.641   | 11.726  | 14.716  | 19.197  | 22.580  |
|    | HEMBA1004977 | 6.756   | 9.870   | 11.419  | 9.684   | 29.373  | 8.701   | 2.217   | 10.523  |
|    | HEMBA1004978 | 8.689   | 11.088  | 13.909  | 9.999   | 5.158   | 5.699   | 2.642   | 10.106  |
|    | HEMBA1004980 | 34.093  | 33.440  | 87.268  | 25.974  | 18.071  | 16.453  | 11.605  | 22.124  |
| 50 | HEMBA1004982 | 14.750  | 8.271   | 17.944  | 9.205   | 8.250   | 11.553  | 6.083   | 5.456   |
|    | HEMBA1004983 | 38.285  | 13.488  | 20.831  | 11.831  | 3.348   | 10.309  | 11.455  | 8.305   |
|    | HEMBA1004995 | 27.256  | 28.515  | 26.297  | 18.434  | 25.474  | 22.491  | 24.452  | 33.683  |
|    | HEMBA1005004 | 13.855  | 10.490  | 33.238  | 10.381  | 7.816   | 13.134  | 7.576   | 14.698  |
|    | HEMBA1005008 | 64.714  | 26.633  | 22.502  | 18.478  | 23.532  | 28.617  | 18.581  | 16.940  |
| 55 | HEMBA1005009 | 34.543  | 15.673  | 19.462  | 18.045  | 14.122  | 26.432  | 12.593  | 23.116  |

Table 32

|    |              |          |         |         |         |         |         |         |          |
|----|--------------|----------|---------|---------|---------|---------|---------|---------|----------|
|    | HEMBA1005019 | 49.260   | 24.872  | 25.349  | 20.834  | 30.144  | 32.629  | 20.777  | 27.016   |
|    | HEMBA1005021 | 37.224   | 63.713  | 38.065  | 17.061  | 15.647  | 20.369  | 25.859  | 32.656   |
| 5  | HEMBA1005029 | 30.265   | 17.783  | 35.352  | 16.531  | 19.588  | 26.517  | 15.798  | 16.604   |
|    | HEMBA1005035 | 393.404  | 200.167 | 574.746 | 133.872 | 210.689 | 177.872 | 156.563 | 170.510  |
|    | HEMBA1005036 | 115.345  | 41.961  | 73.015  | 39.541  | 44.451  | 66.623  | 55.833  | 51.349   |
|    | HEMBA1005039 | 28.850   | 19.922  | 57.018  | 13.971  | 11.999  | 26.427  | 15.206  | 7.350    |
|    | HEMBA1005047 | 93.995   | 31.868  | 54.335  | 18.576  | 28.338  | 31.562  | 31.930  | 23.751   |
|    | HEMBA1005050 | 78.015   | 41.690  | 73.330  | 29.830  | 26.504  | 35.887  | 21.640  | 35.653   |
| 10 | HEMBA1005062 | 23.050   | 15.803  | 29.553  | 15.707  | 7.836   | 15.618  | 19.435  | 13.336   |
|    | HEMBA1005066 | 10.980   | 11.364  | 31.553  | 13.509  | 5.668   | 10.541  | 5.005   | 10.849   |
|    | HEMBA1005067 | 39.308   | 34.578  | 39.795  | 44.519  | 24.643  | 21.272  | 19.379  | 20.121   |
|    | HEMBA1005070 | 73.155   | 34.949  | 68.556  | 29.956  | 38.004  | 38.211  | 48.007  | 31.733   |
|    | HEMBA1005075 | 88.089   | 37.798  | 148.675 | 40.537  | 33.271  | 33.074  | 28.661  | 30.201   |
|    | HEMBA1005078 | 100.064  | 37.746  | 66.827  | 33.115  | 41.170  | 55.560  | 51.231  | 17.112   |
| 15 | HEMBA1005079 | 137.757  | 86.238  | 294.118 | 73.304  | 76.035  | 75.084  | 47.255  | 76.170   |
|    | HEMBA1005083 | 18.102   | 7.642   | 17.087  | 6.711   | 6.184   | 8.675   | 9.287   | 9.609    |
|    | HEMBA1005084 | 82.712   | 38.248  | 47.063  | 26.664  | 27.435  | 37.552  | 38.419  | 28.349   |
|    | HEMBA1005088 | 31.610   | 22.435  | 76.774  | 22.700  | 18.926  | 23.875  | 8.895   | 12.447   |
|    | HEMBA1005089 | 68.944   | 55.156  | 178.226 | 34.742  | 32.350  | 38.645  | 22.869  | 28.148   |
|    | HEMBA1005090 | 148.861  | 86.156  | 117.997 | 94.811  | 57.034  | 81.098  | 54.187  | 116.066  |
| 20 | HEMBA1005096 | 83.125   | 30.911  | 63.940  | 33.378  | 33.962  | 48.589  | 35.467  | 36.021   |
|    | HEMBA1005101 | 69.080   | 14.020  | 34.136  | 10.197  | 13.998  | 34.420  | 22.696  | 15.975   |
|    | HEMBA1005107 | 82.659   | 25.203  | 36.223  | 11.215  | 21.514  | 32.720  | 25.972  | 21.337   |
|    | HEMBA1005113 | 7.977    | 17.225  | 31.501  | 7.563   | 44.493  | 5.157   | 6.957   | 9.761    |
|    | HEMBA1005123 | 173.637  | 77.260  | 555.672 | 126.908 | 94.628  | 90.446  | 70.735  | 90.016   |
|    | HEMBA1005133 | 58.192   | 40.749  | 122.920 | 29.864  | 16.700  | 17.652  | 8.802   | 18.988   |
| 25 | HEMBA1005135 | 8.259    | 9.125   | 14.962  | 2.213   | 16.732  | 6.892   | 3.383   | 6.189    |
|    | HEMBA1005145 | 185.299  | 101.220 | 352.159 | 92.082  | 88.750  | 122.118 | 76.475  | 90.044   |
|    | HEMBA1005149 | 220.122  | 109.352 | 274.492 | 120.663 | 125.192 | 96.704  | 92.083  | 128.030  |
|    | HEMBA1005152 | 125.948  | 96.291  | 226.882 | 58.505  | 33.738  | 46.323  | 27.534  | 34.457   |
|    | HEMBA1005159 | 15.760   | 11.274  | 9.399   | 6.198   | 6.191   | 6.861   | 12.001  | 4.556    |
|    | HEMBA1005172 | 1653.208 | 89.658  | 73.666  | 54.667  | 33.118  | 55.680  | 32.520  | 70.907   |
| 30 | HEMBA1005185 | 9.954    | 17.248  | 10.492  | 34.452  | 3.558   | 3.117   | 6.026   | 11.173   |
|    | HEMBA1005186 | 23.745   | 10.048  | 27.091  | 13.067  | 7.719   | 15.412  | 15.086  | 15.591   |
|    | HEMBA1005195 | 14.573   | 8.648   | 11.038  | 19.306  | 6.313   | 25.313  | 13.510  | 9.183    |
|    | HEMBA1005201 | 52.322   | 13.197  | 47.505  | 13.091  | 12.078  | 8.531   | 23.532  | 9.848    |
|    | HEMBA1005202 | 98.566   | 30.141  | 71.588  | 27.954  | 44.381  | 66.294  | 42.390  | 39.695   |
|    | HEMBA1005204 | 184.429  | 287.156 | 382.039 | 168.753 | 203.458 | 222.970 | 143.609 | 358.646  |
| 35 | HEMBA1005206 | 148.946  | 61.309  | 84.791  | 34.139  | 49.115  | 66.295  | 83.608  | 76.159   |
|    | HEMBA1005219 | 21.685   | 17.755  | 9.606   | 8.236   | 8.038   | 13.031  | 7.751   | 11.441   |
|    | HEMBA1005223 | 79.969   | 42.665  | 113.460 | 40.547  | 32.099  | 53.017  | 26.025  | 32.004   |
|    | HEMBA1005229 | 26.819   | 9.926   | 21.841  | 3.135   | 5.090   | 6.656   | 4.681   | 7.079    |
|    | HEMBA1005230 | 71.184   | 67.313  | 201.065 | 79.279  | 59.679  | 77.484  | 47.808  | 66.511   |
|    | HEMBA1005232 | 7.374    | 6.386   | 17.522  | 8.552   | 3.285   | 12.098  | 4.975   | 3.965    |
| 40 | HEMBA1005238 | 96.780   | 44.134  | 51.932  | 8.128   | 20.776  | 69.291  | 49.474  | 35.019   |
|    | HEMBA1005241 | 142.598  | 104.185 | 428.635 | 78.773  | 78.033  | 74.434  | 42.333  | 63.097   |
|    | HEMBA1005244 | 76.771   | 32.597  | 37.797  | 16.459  | 12.489  | 35.934  | 31.814  | 35.602   |
|    | HEMBA1005246 | 241.316  | 60.348  | 73.077  | 25.067  | 41.351  | 117.666 | 88.193  | 54.014   |
|    | HEMBA1005251 | 37.505   | 33.247  | 108.631 | 23.585  | 14.915  | 23.393  | 14.302  | 16.409   |
|    | HEMBA1005252 | 53.401   | 25.532  | 37.199  | 15.002  | 20.744  | 31.279  | 24.207  | 27.562   |
|    | HEMBA1005267 | 17.238   | 39.564  | 20.097  | 27.506  | 31.874  | 11.013  | 14.526  | 14.024   |
| 45 | HEMBA1005274 | 16.538   | 8.744   | 18.308  | 9.021   | 10.103  | 11.943  | 8.914   | 11.978   |
|    | HEMBA1005275 | 69.133   | 43.329  | 216.468 | 46.290  | 57.647  | 37.411  | 25.040  | 41.913   |
|    | HEMBA1005288 | 65.401   | 50.495  | 150.714 | 33.833  | 34.633  | 28.241  | 24.910  | 40.164   |
|    | HEMBA1005293 | 17.403   | 9.430   | 23.201  | 4.467   | 3.192   | 25.620  | 6.775   | 8.771    |
|    | HEMBA1005296 | 223.097  | 811.623 | 894.835 | 738.361 | 220.523 | 698.319 | 418.435 | 1376.785 |
|    | HEMBA1005301 | 36.708   | 16.970  | 29.798  | 11.929  | 12.544  | 22.221  | 35.726  | 32.270   |
| 50 | HEMBA1005304 | 83.978   | 71.914  | 260.016 | 50.686  | 36.101  | 36.160  | 24.896  | 47.838   |
|    | HEMBA1005305 | 44.218   | 33.773  | 74.215  | 27.494  | 27.352  | 34.920  | 21.424  | 38.882   |
|    | HEMBA1005311 | 33.034   | 20.140  | 48.263  | 13.836  | 7.908   | 8.958   | 9.090   | 10.440   |
|    | HEMBA1005313 | 11.165   | 36.175  | 17.550  | 7.047   | 11.502  | 14.209  | 63.072  | 9.124    |
|    | HEMBA1005314 | 6.948    | 2.955   | 22.604  | 6.336   | 3.812   | 5.787   | 4.069   | 4.891    |
|    | HEMBA1005315 | 72.349   | 54.139  | 156.842 | 34.545  | 43.132  | 26.415  | 28.942  | 28.442   |
| 55 | HEMBA1005317 | 20.230   | 8.451   | 17.258  | 9.796   | 11.664  | 9.976   | 9.263   | 8.017    |

Table 33

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1005318 | 14.755  | 5.911   | 13.883  | 5.228   | 5.376   | 9.013   | 5.511   | 4.846   |
|    | HEMBA1005324 | 98.070  | 33.348  | 44.270  | 26.052  | 35.446  | 48.523  | 30.889  | 17.915  |
| 5  | HEMBA1005331 | 24.826  | 335.211 | 15.947  | 26.496  | 14.744  | 21.427  | 16.942  | 29.580  |
|    | HEMBA1005337 | 19.080  | 18.022  | 19.429  | 5.217   | 20.830  | 29.867  | 32.481  | 44.585  |
|    | HEMBA1005338 | 61.533  | 38.788  | 63.113  | 23.657  | 30.437  | 48.455  | 40.921  | 36.285  |
|    | HEMBA1005344 | 384.481 | 88.937  | 143.574 | 53.983  | 72.524  | 167.620 | 135.992 | 68.042  |
|    | HEMBA1005353 | 111.629 | 68.949  | 220.401 | 62.090  | 53.484  | 67.048  | 30.456  | 42.612  |
|    | HEMBA1005359 | 87.635  | 64.332  | 175.543 | 59.707  | 36.743  | 34.233  | 21.666  | 47.596  |
| 10 | HEMBA1005362 | 25.674  | 25.093  | 18.642  | 30.797  | 21.917  | 19.092  | 20.883  | 12.720  |
|    | HEMBA1005364 | 6.677   | 2.817   | 5.168   | 13.116  | 19.753  | 5.180   | 2.877   | 7.198   |
|    | HEMBA1005367 | 51.911  | 28.536  | 74.559  | 28.446  | 30.138  | 27.987  | 16.766  | 22.415  |
|    | HEMBA1005372 | 11.289  | 6.819   | 11.700  | 5.659   | 9.177   | 6.402   | 9.312   | 4.913   |
|    | HEMBA1005374 | 64.639  | 57.505  | 120.218 | 32.738  | 30.987  | 24.792  | 23.695  | 30.728  |
|    | HEMBA1005379 | 29.549  | 13.813  | 12.040  | 8.862   | 7.648   | 11.978  | 9.051   | 4.019   |
| 15 | HEMBA1005382 | 140.116 | 94.743  | 104.609 | 70.213  | 26.226  | 53.452  | 88.235  | 85.480  |
|    | HEMBA1005384 | 33.109  | 15.221  | 21.713  | 10.250  | 8.543   | 11.030  | 7.498   | 9.010   |
|    | HEMBA1005386 | 111.062 | 30.547  | 52.790  | 29.541  | 31.691  | 44.619  | 35.179  | 29.136  |
|    | HEMBA1005389 | 66.821  | 32.429  | 129.272 | 42.528  | 35.894  | 16.765  | 11.513  | 24.601  |
|    | HEMBA1005394 | 35.794  | 18.327  | 22.715  | 25.833  | 26.639  | 30.857  | 16.944  | 24.443  |
|    | HEMBA1005403 | 40.404  | 14.030  | 54.041  | 14.621  | 15.504  | 27.461  | 15.586  | 32.390  |
| 20 | HEMBA1005408 | 51.701  | 45.069  | 71.813  | 44.257  | 67.383  | 35.010  | 23.690  | 44.612  |
|    | HEMBA1005410 | 4.534   | 4.269   | 11.774  | 12.035  | 10.197  | 6.188   | 3.955   | 8.910   |
|    | HEMBA1005411 | 75.220  | 94.039  | 163.001 | 67.133  | 50.499  | 41.243  | 22.652  | 35.008  |
|    | HEMBA1005423 | 35.745  | 26.430  | 69.138  | 35.773  | 15.442  | 19.286  | 14.057  | 23.010  |
|    | HEMBA1005426 | 14.366  | 12.073  | 14.418  | 5.345   | 11.591  | 8.954   | 3.082   | 7.203   |
|    | HEMBA1005427 | 66.444  | 99.596  | 61.088  | 47.865  | 59.821  | 53.861  | 25.223  | 46.397  |
|    | HEMBA1005430 | 52.945  | 15.385  | 36.316  | 19.210  | 23.854  | 37.895  | 19.556  | 18.127  |
| 25 | HEMBA1005438 | 51.806  | 28.359  | 33.314  | 17.787  | 19.295  | 21.754  | 13.422  | 29.941  |
|    | HEMBA1005443 | 108.954 | 165.667 | 426.408 | 91.550  | 77.559  | 76.024  | 105.042 | 108.232 |
|    | HEMBA1005447 | 51.383  | 39.578  | 65.244  | 29.171  | 28.000  | 21.457  | 18.763  | 23.755  |
|    | HEMBA1005449 | 86.452  | 20.253  | 41.861  | 15.939  | 27.647  | 39.311  | 28.567  | 27.508  |
|    | HEMBA1005452 | 110.567 | 52.128  | 74.119  | 42.532  | 39.847  | 53.326  | 67.529  | 72.233  |
|    | HEMBA1005454 | 7.997   | 16.821  | 17.998  | 14.293  | 14.436  | 8.454   | 6.498   | 11.445  |
| 30 | HEMBA1005468 | 185.066 | 78.008  | 126.372 | 56.026  | 56.490  | 78.922  | 61.083  | 57.511  |
|    | HEMBA1005469 | 88.419  | 54.761  | 196.280 | 63.682  | 53.661  | 42.639  | 23.441  | 30.144  |
|    | HEMBA1005472 | 37.878  | 41.710  | 88.807  | 34.196  | 28.126  | 21.983  | 24.350  | 30.575  |
|    | HEMBA1005474 | 89.169  | 55.263  | 212.086 | 51.664  | 50.480  | 66.508  | 39.590  | 30.322  |
|    | HEMBA1005475 | 212.273 | 98.359  | 182.707 | 110.945 | 105.968 | 98.316  | 56.095  | 68.647  |
|    | HEMBA1005489 | 61.603  | 40.439  | 42.459  | 21.361  | 21.335  | 31.130  | 11.578  | 25.898  |
| 35 | HEMBA1005497 | 10.325  | 12.396  | 5.705   | 8.252   | 5.611   | 9.949   | 2.213   | 16.039  |
|    | HEMBA1005500 | 86.636  | 39.755  | 180.843 | 46.031  | 28.664  | 31.809  | 14.951  | 31.189  |
|    | HEMBA1005506 | 24.029  | 3.468   | 17.794  | 7.400   | 5.464   | 9.419   | 6.593   | 3.517   |
|    | HEMBA1005508 | 12.944  | 12.524  | 22.247  | 8.536   | 16.857  | 11.561  | 7.741   | 12.059  |
|    | HEMBA1005511 | 116.338 | 59.193  | 267.636 | 59.921  | 58.995  | 43.190  | 30.786  | 51.049  |
|    | HEMBA1005513 | 167.332 | 70.217  | 88.519  | 56.620  | 54.920  | 73.797  | 80.751  | 68.624  |
| 40 | HEMBA1005517 | 37.667  | 10.443  | 23.901  | 8.903   | 17.777  | 21.966  | 23.844  | 18.611  |
|    | HEMBA1005518 | 109.105 | 25.679  | 71.345  | 23.319  | 36.856  | 47.397  | 27.618  | 27.825  |
|    | HEMBA1005520 | 200.267 | 104.176 | 459.373 | 133.255 | 106.207 | 95.070  | 67.199  | 94.086  |
|    | HEMBA1005522 | 36.421  | 15.946  | 24.796  | 12.598  | 8.472   | 14.558  | 16.899  | 13.857  |
|    | HEMBA1005526 | 116.274 | 72.899  | 292.397 | 82.002  | 73.603  | 66.198  | 34.319  | 47.682  |
|    | HEMBA1005528 | 13.037  | 9.406   | 30.550  | 14.612  | 15.947  | 16.516  | 7.583   | 24.988  |
|    | HEMBA1005530 | 56.516  | 26.583  | 63.811  | 13.686  | 21.441  | 29.159  | 24.254  | 21.717  |
| 45 | HEMBA1005538 | 5.523   | 17.373  | 36.952  | 7.017   | 10.885  | 11.406  | 15.411  | 35.789  |
|    | HEMBA1005539 | 76.498  | 30.847  | 69.424  | 17.584  | 24.989  | 35.829  | 28.772  | 25.913  |
|    | HEMBA1005545 | 46.912  | 10.940  | 32.124  | 15.206  | 46.822  | 33.595  | 31.865  | 24.090  |
|    | HEMBA1005548 | 57.779  | 14.326  | 15.050  | 10.139  | 18.638  | 22.115  | 22.271  | 39.291  |
|    | HEMBA1005552 | 141.489 | 120.695 | 363.831 | 84.934  | 81.893  | 79.223  | 60.281  | 62.088  |
|    | HEMBA1005558 | 52.488  | 20.021  | 24.397  | 9.638   | 22.919  | 24.422  | 21.466  | 8.178   |
| 50 | HEMBA1005568 | 74.152  | 61.206  | 184.989 | 53.681  | 38.261  | 33.077  | 24.038  | 37.014  |
|    | HEMBA1005570 | 54.151  | 68.747  | 74.768  | 17.273  | 26.562  | 31.212  | 27.080  | 30.221  |
|    | HEMBA1005576 | 71.454  | 57.260  | 39.016  | 21.283  | 8.931   | 30.461  | 29.371  | 19.991  |
|    | HEMBA1005577 | 40.771  | 13.448  | 21.181  | 13.021  | 6.610   | 18.266  | 12.838  | 10.181  |
|    | HEMBA1005581 | 81.577  | 27.270  | 38.708  | 10.847  | 19.565  | 33.479  | 28.804  | 16.842  |
| 55 | HEMBA1005582 | 24.681  | 30.135  | 30.933  | 14.220  | 7.764   | 10.454  | 12.847  | 13.157  |

Table 34

|    |              |         |         |         |         |         |         |        |         |
|----|--------------|---------|---------|---------|---------|---------|---------|--------|---------|
|    | HEMBA1005583 | 23.564  | 22.466  | 98.629  | 9.735   | 10.545  | 12.468  | 10.523 | 17.884  |
|    | HEMBA1005588 | 96.041  | 96.264  | 266.022 | 69.126  | 54.588  | 44.105  | 34.310 | 52.441  |
| 5  | HEMBA1005593 | 61.102  | 40.350  | 125.688 | 37.987  | 35.953  | 41.577  | 39.834 | 47.357  |
|    | HEMBA1005595 | 52.429  | 18.652  | 31.240  | 8.095   | 8.750   | 14.586  | 12.433 | 7.264   |
|    | HEMBA1005597 | 125.119 | 43.335  | 90.414  | 24.402  | 44.780  | 74.946  | 66.352 | 45.322  |
|    | HEMBA1005606 | 141.646 | 66.667  | 95.041  | 30.084  | 57.974  | 107.329 | 84.655 | 46.145  |
|    | HEMBA1005609 | 77.991  | 60.190  | 244.951 | 52.002  | 41.602  | 40.406  | 26.928 | 42.614  |
|    | HEMBA1005616 | 47.760  | 62.865  | 190.870 | 42.670  | 41.809  | 32.256  | 23.683 | 43.139  |
| 10 | HEMBA1005621 | 33.797  | 18.993  | 22.515  | 11.333  | 11.545  | 16.964  | 12.122 | 13.910  |
|    | HEMBA1005627 | 128.661 | 66.487  | 148.021 | 45.359  | 42.161  | 42.054  | 30.884 | 43.319  |
|    | HEMBA1005628 | 43.539  | 36.758  | 85.714  | 25.524  | 46.601  | 19.229  | 82.784 | 36.636  |
|    | HEMBA1005631 | 21.340  | 8.467   | 38.068  | 22.476  | 18.318  | 17.813  | 12.599 | 28.199  |
|    | HEMBA1005632 | 113.190 | 73.661  | 233.637 | 59.097  | 45.388  | 52.090  | 29.944 | 37.461  |
|    | HEMBA1005634 | 123.668 | 195.912 | 390.579 | 101.523 | 107.528 | 72.729  | 54.939 | 130.473 |
| 15 | HEMBA1005662 | 15.391  | 11.345  | 23.021  | 7.453   | 5.561   | 13.084  | 8.973  | 5.282   |
|    | HEMBA1005666 | 33.844  | 30.419  | 34.983  | 13.220  | 31.573  | 24.609  | 13.796 | 28.043  |
|    | HEMBA1005670 | 91.667  | 63.609  | 255.523 | 57.730  | 46.927  | 45.285  | 23.794 | 46.684  |
|    | HEMBA1005671 | 63.448  | 55.388  | 34.948  | 26.297  | 20.567  | 2.367   | 5.666  | 13.509  |
|    | HEMBA1005679 | 53.089  | 33.284  | 126.705 | 39.666  | 32.151  | 40.446  | 37.522 | 36.817  |
|    | HEMBA1005680 | 115.289 | 72.018  | 220.408 | 76.653  | 55.707  | 68.735  | 32.613 | 36.282  |
| 20 | HEMBA1005685 | 68.783  | 46.211  | 72.197  | 30.110  | 32.724  | 43.022  | 37.740 | 33.510  |
|    | HEMBA1005698 | 37.890  | 35.679  | 44.793  | 29.794  | 25.150  | 48.613  | 15.651 | 20.648  |
|    | HEMBA1005699 | 14.243  | 17.539  | 37.269  | 9.035   | 12.276  | 5.454   | 5.259  | 6.787   |
|    | HEMBA1005703 | 19.524  | 15.116  | 20.249  | 7.662   | 15.489  | 11.648  | 8.488  | 10.229  |
|    | HEMBA1005705 | 35.316  | 35.677  | 66.552  | 26.492  | 29.605  | 90.298  | 18.303 | 44.730  |
|    | HEMBA1005712 | 20.312  | 29.695  | 30.267  | 17.829  | 17.668  | 17.695  | 14.517 | 23.820  |
|    | HEMBA1005717 | 47.313  | 15.037  | 30.499  | 6.950   | 13.391  | 32.044  | 15.084 | 7.078   |
| 25 | HEMBA1005718 | 88.576  | 81.734  | 176.773 | 75.414  | 46.080  | 58.797  | 49.803 | 76.705  |
|    | HEMBA1005721 | 84.981  | 42.340  | 58.434  | 18.134  | 34.246  | 43.284  | 34.523 | 41.460  |
|    | HEMBA1005722 | 174.952 | 92.346  | 194.868 | 55.652  | 48.768  | 63.471  | 92.755 | 56.031  |
|    | HEMBA1005724 | 32.655  | 8.284   | 5.342   | 4.000   | 14.801  | 15.671  | 9.324  | 5.953   |
|    | HEMBA1005732 | 89.624  | 24.907  | 32.546  | 5.638   | 21.753  | 30.046  | 28.487 | 20.595  |
|    | HEMBA1005737 | 25.179  | 16.797  | 16.017  | 10.703  | 12.731  | 12.444  | 8.579  | 7.257   |
| 30 | HEMBA1005742 | 11.547  | 23.162  | 24.345  | 20.921  | 29.934  | 18.597  | 13.749 | 22.702  |
|    | HEMBA1005746 | 36.098  | 14.407  | 21.907  | 16.923  | 13.431  | 12.235  | 10.908 | 8.606   |
|    | HEMBA1005747 | 80.718  | 30.396  | 44.843  | 21.861  | 30.274  | 80.588  | 47.082 | 26.037  |
|    | HEMBA1005749 | 35.749  | 31.758  | 64.769  | 22.766  | 28.853  | 26.733  | 31.698 | 30.753  |
|    | HEMBA1005755 | 34.680  | 39.133  | 30.663  | 37.837  | 21.308  | 24.392  | 15.905 | 25.470  |
|    | HEMBA1005760 | 118.125 | 41.490  | 33.276  | 25.724  | 28.933  | 46.295  | 36.173 | 31.205  |
| 35 | HEMBA1005765 | 94.451  | 70.516  | 200.826 | 48.023  | 37.340  | 35.414  | 31.098 | 40.041  |
|    | HEMBA1005766 | 112.861 | 70.359  | 87.247  | 48.958  | 51.073  | 52.147  | 72.391 | 63.859  |
|    | HEMBA1005780 | 55.961  | 34.713  | 89.816  | 28.466  | 46.254  | 28.283  | 25.156 | 29.122  |
|    | HEMBA1005795 | 18.800  | 38.386  | 19.666  | 10.007  | 13.009  | 11.811  | 13.106 | 14.493  |
|    | HEMBA1005809 | 67.301  | 66.510  | 87.390  | 53.061  | 43.975  | 35.574  | 35.334 | 57.818  |
|    | HEMBA1005813 | 52.911  | 84.881  | 160.064 | 38.752  | 43.727  | 30.799  | 23.426 | 57.177  |
| 40 | HEMBA1005815 | 30.398  | 30.434  | 43.366  | 19.911  | 16.123  | 39.746  | 26.743 | 28.548  |
|    | HEMBA1005822 | 40.948  | 47.746  | 65.298  | 51.932  | 30.845  | 20.187  | 22.641 | 29.114  |
|    | HEMBA1005829 | 114.982 | 70.536  | 272.004 | 48.816  | 36.558  | 40.259  | 23.443 | 35.824  |
|    | HEMBA1005833 | 59.540  | 25.743  | 29.266  | 15.545  | 24.711  | 26.964  | 17.968 | 18.807  |
|    | HEMBA1005834 | 151.440 | 82.917  | 322.413 | 102.348 | 74.711  | 59.590  | 35.082 | 70.415  |
|    | HEMBA1005844 | 66.624  | 11.865  | 96.556  | 95.719  | 56.133  | 75.546  | 55.974 | 122.840 |
|    | HEMBA1005852 | 71.743  | 77.830  | 72.218  | 53.009  | 85.623  | 78.593  | 90.291 | 87.310  |
| 45 | HEMBA1005853 | 62.809  | 83.326  | 343.381 | 63.897  | 79.208  | 48.939  | 27.359 | 58.468  |
|    | HEMBA1005878 | 139.991 | 109.928 | 447.600 | 93.748  | 65.325  | 53.917  | 35.383 | 63.446  |
|    | HEMBA1005883 | 5.211   | 6.310   | 6.808   | 14.769  | 10.070  | 6.635   | 4.486  | 11.850  |
|    | HEMBA1005884 | 9.136   | 10.768  | 29.442  | 9.504   | 7.302   | 9.142   | 4.561  | 12.287  |
|    | HEMBA1005891 | 8.927   | 12.500  | 12.662  | 5.996   | 7.370   | 7.346   | 1.250  | 5.470   |
|    | HEMBA1005894 | 70.006  | 59.347  | 177.879 | 49.407  | 29.584  | 23.227  | 14.651 | 36.934  |
| 50 | HEMBA1005898 | 84.399  | 61.254  | 234.549 | 59.872  | 43.955  | 25.491  | 23.019 | 41.130  |
|    | HEMBA1005902 | 38.306  | 16.873  | 52.804  | 16.742  | 33.189  | 39.317  | 26.778 | 43.681  |
|    | HEMBA1005907 | 4.806   | 3.997   | 8.804   | 5.339   | 3.957   | 17.078  | 5.311  | 4.941   |
|    | HEMBA1005909 | 4.140   | 3.733   | 23.479  | 2.443   | 4.661   | 6.683   | 0.750  | 10.643  |
|    | HEMBA1005911 | 143.926 | 92.633  | 316.302 | 83.107  | 51.954  | 60.593  | 39.302 | 55.189  |
| 55 | HEMBA1005912 | 18.801  | 17.269  | 13.568  | 32.298  | 21.976  | 14.454  | 12.917 | 26.318  |



Table 35

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1005913 | 10.533  | 16.117  | 14.368  | 16.655  | 8.179   | 7.135   | 7.907   | 12.918  |
|    | HEMBA1005921 | 83.262  | 45.648  | 252.573 | 51.044  | 41.764  | 22.286  | 23.762  | 46.202  |
| 5  | HEMBA1005922 | 64.440  | 17.427  | 35.136  | 20.084  | 33.779  | 24.835  | 18.394  | 14.883  |
|    | HEMBA1005929 | 173.002 | 139.696 | 378.444 | 96.543  | 83.075  | 72.298  | 55.205  | 94.716  |
|    | HEMBA1005931 | 146.354 | 89.551  | 224.601 | 83.623  | 63.406  | 73.122  | 54.973  | 59.891  |
|    | HEMBA1005934 | 141.558 | 91.791  | 227.012 | 89.834  | 99.341  | 96.876  | 62.967  | 55.492  |
|    | HEMBA1005945 | 144.693 | 21.871  | 38.980  | 19.915  | 46.699  | 78.590  | 80.430  | 30.052  |
|    | HEMBA1005962 | 67.209  | 34.719  | 63.745  | 21.004  | 17.931  | 29.331  | 21.199  | 20.008  |
| 10 | HEMBA1005963 | 18.320  | 6.954   | 9.127   | 5.913   | 2.497   | 8.674   | 7.674   | 4.873   |
|    | HEMBA1005990 | 581.646 | 117.336 | 139.967 | 53.671  | 242.262 | 424.182 | 418.873 | 85.511  |
|    | HEMBA1005991 | 67.437  | 59.327  | 188.570 | 42.994  | 21.101  | 33.868  | 19.184  | 11.619  |
|    | HEMBA1005999 | 193.878 | 135.695 | 450.789 | 126.399 | 129.150 | 103.289 | 53.193  | 115.911 |
|    | HEMBA1006002 | 73.560  | 26.438  | 22.156  | 12.657  | 16.731  | 16.116  | 10.600  | 19.305  |
|    | HEMBA1006005 | 59.620  | 7.083   | 16.863  | 8.213   | 29.019  | 53.513  | 52.130  | 23.838  |
| 15 | HEMBA1006011 | 25.811  | 30.413  | 39.888  | 21.434  | 54.488  | 30.978  | 27.996  | 25.339  |
|    | HEMBA1006013 | 51.604  | 13.251  | 19.743  | 11.817  | 15.364  | 28.363  | 21.493  | 18.674  |
|    | HEMBA1006016 | 101.929 | 42.149  | 115.996 | 36.228  | 39.875  | 46.607  | 33.305  | 26.397  |
|    | HEMBA1006019 | 31.772  | 18.482  | 22.979  | 15.207  | 22.984  | 24.244  | 26.246  | 14.100  |
|    | HEMBA1006021 | 26.984  | 10.213  | 45.937  | 9.253   | 20.615  | 14.587  | 14.203  | 12.296  |
|    | HEMBA1006022 | 100.930 | 40.046  | 62.368  | 42.744  | 23.660  | 46.057  | 25.008  | 19.323  |
| 20 | HEMBA1006031 | 42.088  | 41.281  | 14.729  | 11.264  | 12.725  | 36.716  | 13.037  | 5.133   |
|    | HEMBA1006035 | 10.089  | 10.059  | 27.290  | 8.123   | 6.309   | 6.629   | 2.039   | 5.229   |
|    | HEMBA1006036 | 188.431 | 82.469  | 443.914 | 119.939 | 80.135  | 81.126  | 54.157  | 94.631  |
|    | HEMBA1006042 | 69.906  | 33.773  | 134.462 | 30.108  | 23.244  | 29.765  | 29.479  | 29.607  |
|    | HEMBA1006044 | 53.721  | 10.199  | 12.818  | 4.725   | 8.467   | 5.436   | 2.586   | 4.088   |
|    | HEMBA1006045 | 48.078  | 43.730  | 61.128  | 28.336  | 25.311  | 26.461  | 23.478  | 44.272  |
|    | HEMBA1006048 | 35.685  | 18.435  | 41.495  | 19.225  | 19.636  | 34.213  | 26.302  | 28.809  |
| 25 | HEMBA1006053 | 0.000   | 356.500 | 78.844  | 24.270  | 47.030  | 114.986 | 63.574  | 385.970 |
|    | HEMBA1006055 | 7.603   | 5.331   | 12.625  | 4.484   | 13.776  | 12.227  | 9.079   | 5.545   |
|    | HEMBA1006058 | 51.872  | 19.394  | 14.828  | 7.834   | 11.877  | 25.640  | 15.830  | 21.486  |
|    | HEMBA1006063 | 72.886  | 52.429  | 63.882  | 34.021  | 30.125  | 39.536  | 28.303  | 35.860  |
|    | HEMBA1006067 | 6.005   | 14.253  | 7.505   | 3.169   | 2.242   | 3.352   | 4.358   | 0.888   |
|    | HEMBA1006081 | 70.282  | 19.151  | 25.838  | 8.981   | 9.908   | 26.560  | 16.837  | 23.976  |
| 30 | HEMBA1006089 | 54.392  | 23.145  | 42.709  | 18.278  | 17.433  | 17.768  | 18.372  | 23.981  |
|    | HEMBA1006090 | 71.092  | 20.389  | 36.832  | 15.386  | 17.868  | 38.904  | 35.031  | 18.238  |
|    | HEMBA1006091 | 59.022  | 28.947  | 126.425 | 16.353  | 30.302  | 56.034  | 53.660  | 66.468  |
|    | HEMBA1006093 | 111.885 | 11.435  | 50.738  | 16.185  | 27.687  | 43.178  | 26.048  | 14.980  |
|    | HEMBA1006099 | 40.381  | 27.136  | 39.149  | 18.199  | 31.100  | 31.158  | 28.536  | 26.484  |
|    | HEMBA1006100 | 36.979  | 48.991  | 259.267 | 41.090  | 50.094  | 24.833  | 13.379  | 34.466  |
| 35 | HEMBA1006108 | 40.170  | 19.301  | 21.811  | 11.126  | 8.795   | 12.441  | 8.780   | 16.453  |
|    | HEMBA1006114 | 42.849  | 44.783  | 46.702  | 33.193  | 23.220  | 34.626  | 28.294  | 51.756  |
|    | HEMBA1006121 | 160.208 | 21.943  | 26.728  | 10.160  | 21.331  | 17.129  | 26.838  | 25.137  |
|    | HEMBA1006124 | 63.151  | 11.764  | 15.994  | 17.764  | 14.099  | 57.249  | 29.200  | 8.240   |
|    | HEMBA1006125 | 72.730  | 70.406  | 57.020  | 50.057  | 45.287  | 40.856  | 45.665  | 68.939  |
|    | HEMBA1006130 | 36.221  | 31.688  | 34.742  | 7.817   | 28.246  | 34.473  | 25.726  | 21.315  |
| 40 | HEMBA1006138 | 160.258 | 170.875 | 435.120 | 106.719 | 139.660 | 100.947 | 67.854  | 89.604  |
|    | HEMBA1006142 | 127.194 | 85.725  | 238.562 | 54.531  | 52.936  | 65.032  | 45.938  | 59.791  |
|    | HEMBA1006150 | 66.777  | 58.231  | 76.666  | 59.941  | 19.605  | 46.114  | 33.261  | 75.731  |
|    | HEMBA1006151 | 189.265 | 57.959  | 104.921 | 29.646  | 46.546  | 66.736  | 74.155  | 88.383  |
|    | HEMBA1006155 | 141.288 | 19.560  | 50.142  | 11.752  | 32.711  | 79.435  | 60.621  | 32.838  |
|    | HEMBA1006158 | 17.276  | 12.039  | 19.210  | 7.139   | 7.468   | 23.241  | 7.360   | 13.357  |
|    | HEMBA1006164 | 140.272 | 70.843  | 382.965 | 97.488  | 87.832  | 69.460  | 42.210  | 85.135  |
| 45 | HEMBA1006171 | 66.839  | 48.304  | 34.618  | 13.911  | 21.700  | 40.783  | 26.049  | 37.233  |
|    | HEMBA1006173 | 63.939  | 35.393  | 52.598  | 22.894  | 32.403  | 35.413  | 40.872  | 67.870  |
|    | HEMBA1006176 | 51.671  | 222.661 | 52.703  | 39.369  | 29.305  | 59.271  | 24.272  | 83.343  |
|    | HEMBA1006182 | 72.842  | 38.362  | 132.455 | 29.730  | 26.735  | 30.382  | 19.907  | 34.405  |
|    | HEMBA1006197 | 16.555  | 31.338  | 37.528  | 55.808  | 23.143  | 18.848  | 13.456  | 40.765  |
|    | HEMBA1006198 | 30.466  | 15.178  | 21.337  | 16.185  | 25.764  | 15.643  | 14.389  | 18.561  |
| 50 | HEMBA1006213 | 38.783  | 20.120  | 38.136  | 15.627  | 10.604  | 25.761  | 21.716  | 35.282  |
|    | HEMBA1006217 | 32.003  | 18.510  | 33.960  | 4.079   | 17.107  | 31.016  | 36.526  | 19.419  |
|    | HEMBA1006226 | 40.304  | 60.090  | 110.529 | 40.359  | 39.915  | 62.796  | 35.202  | 59.281  |
|    | HEMBA1006235 | 40.954  | 9.021   | 21.361  | 7.280   | 14.241  | 13.056  | 4.951   | 7.077   |
|    | HEMBA1006248 | 42.946  | 17.521  | 32.092  | 10.747  | 12.992  | 19.331  | 18.339  | 17.999  |
|    | HEMBA1006251 | 84.944  | 24.303  | 30.554  | 15.291  | 24.212  | 30.870  | 18.154  | 10.996  |

Table 36

|    |              |         |         |         |         |         |         |        |         |
|----|--------------|---------|---------|---------|---------|---------|---------|--------|---------|
|    | HEMBA1006252 | 36.069  | 24.612  | 74.170  | 29.506  | 28.055  | 19.517  | 14.085 | 15.356  |
|    | HEMBA1006253 | 75.854  | 7.002   | 20.773  | 16.455  | 11.705  | 12.936  | 6.506  | 11.398  |
| 5  | HEMBA1006259 | 37.456  | 48.402  | 136.000 | 39.735  | 19.462  | 25.242  | 19.832 | 25.931  |
|    | HEMBA1006261 | 23.677  | 23.578  | 6.874   | 13.012  | 7.127   | 69.427  | 7.141  | 17.143  |
|    | HEMBA1006268 | 35.886  | 12.563  | 30.879  | 8.970   | 7.077   | 19.793  | 22.288 | 18.289  |
|    | HEMBA1006271 | 122.980 | 98.618  | 185.469 | 77.610  | 45.268  | 47.910  | 36.533 | 47.867  |
|    | HEMBA1006272 | 16.261  | 12.829  | 9.416   | 4.968   | 5.925   | 27.766  | 15.997 | 7.567   |
|    | HEMBA1006273 | 47.890  | 12.641  | 71.219  | 20.880  | 30.446  | 30.473  | 18.419 | 22.459  |
| 10 | HEMBA1006276 | 79.296  | 11.878  | 30.854  | 34.032  | 8.760   | 27.168  | 16.165 | 7.501   |
|    | HEMBA1006278 | 40.093  | 7.717   | 26.091  | 4.506   | 18.669  | 11.680  | 11.224 | 9.893   |
|    | HEMBA1006283 | 16.994  | 23.586  | 25.614  | 25.226  | 23.447  | 59.086  | 28.267 | 25.848  |
|    | HEMBA1006284 | 29.982  | 22.166  | 27.891  | 20.874  | 8.594   | 18.386  | 15.293 | 13.396  |
|    | HEMBA1006291 | 22.745  | 13.071  | 36.861  | 9.670   | 4.059   | 11.649  | 31.851 | 7.519   |
|    | HEMBA1006292 | 17.718  | 8.916   | 20.081  | 10.169  | 4.378   | 7.903   | 9.259  | 7.898   |
| 15 | HEMBA1006293 | 31.307  | 10.056  | 8.749   | 4.645   | 4.097   | 6.631   | 8.473  | 7.189   |
|    | HEMBA1006299 | 21.091  | 5.917   | 6.157   | 1.371   | 4.543   | 2.465   | 1.701  | 2.648   |
|    | HEMBA1006309 | 69.975  | 25.568  | 110.869 | 33.191  | 19.510  | 31.160  | 24.850 | 17.764  |
|    | HEMBA1006310 | 40.983  | 23.265  | 36.585  | 20.570  | 11.748  | 29.056  | 27.263 | 17.748  |
|    | HEMBA1006311 | 85.398  | 20.844  | 64.711  | 8.925   | 20.171  | 92.798  | 9.481  | 19.313  |
|    | HEMBA1006313 | 27.762  | 12.975  | 47.707  | 17.417  | 7.455   | 13.117  | 9.891  | 6.082   |
| 20 | HEMBA1006316 | 23.345  | 3.751   | 3.303   | 2.158   | 8.774   | 9.668   | 8.505  | 3.270   |
|    | HEMBA1006328 | 79.937  | 83.744  | 185.981 | 41.111  | 28.820  | 37.527  | 35.377 | 85.968  |
|    | HEMBA1006334 | 22.524  | 16.717  | 17.679  | 5.994   | 8.506   | 9.813   | 3.866  | 5.361   |
|    | HEMBA1006335 | 72.666  | 41.477  | 35.235  | 27.435  | 6.110   | 5.851   | 24.375 | 8.434   |
|    | HEMBA1006344 | 34.707  | 67.866  | 132.978 | 46.518  | 34.812  | 40.158  | 41.934 | 25.330  |
|    | HEMBA1006347 | 34.301  | 16.445  | 32.190  | 19.603  | 16.749  | 20.762  | 20.884 | 15.376  |
|    | HEMBA1006349 | 139.389 | 26.300  | 48.767  | 43.275  | 22.026  | 24.648  | 22.876 | 21.499  |
| 25 | HEMBA1006352 | 21.127  | 17.873  | 15.526  | 9.410   | 8.472   | 14.845  | 7.491  | 9.414   |
|    | HEMBA1006357 | 94.337  | 82.319  | 287.531 | 67.888  | 76.120  | 47.179  | 41.500 | 59.557  |
|    | HEMBA1006358 | 48.925  | 31.345  | 132.494 | 32.473  | 25.019  | 28.197  | 13.250 | 24.899  |
|    | HEMBA1006359 | 57.203  | 18.522  | 160.314 | 70.923  | 17.441  | 30.686  | 11.154 | 47.991  |
|    | HEMBA1006360 | 29.518  | 10.133  | 15.515  | 17.275  | 6.141   | 13.876  | 6.804  | 8.361   |
|    | HEMBA1006364 | 59.236  | 7.900   | 27.522  | 12.114  | 5.401   | 15.432  | 17.981 | 6.672   |
| 30 | HEMBA1006377 | 67.120  | 31.113  | 57.269  | 33.567  | 23.849  | 45.246  | 31.609 | 20.280  |
|    | HEMBA1006380 | 73.227  | 57.029  | 182.581 | 57.870  | 22.288  | 33.416  | 23.616 | 40.932  |
|    | HEMBA1006381 | 359.346 | 122.755 | 376.090 | 126.304 | 112.826 | 146.346 | 91.469 | 93.252  |
|    | HEMBA1006385 | 60.234  | 62.166  | 257.945 | 59.429  | 59.157  | 40.136  | 35.385 | 17.281  |
|    | HEMBA1006390 | 71.393  | 38.752  | 46.828  | 25.848  | 16.455  | 41.253  | 16.013 | 27.609  |
|    | HEMBA1006391 | 61.261  | 18.765  | 20.686  | 10.972  | 10.022  | 39.431  | 27.305 | 11.797  |
| 35 | HEMBA1006398 | 42.089  | 3.225   | 18.036  | 5.299   | 25.386  | 6.480   | 0.000  | 3.308   |
|    | HEMBA1006405 | 137.413 | 28.645  | 40.904  | 17.896  | 18.180  | 84.926  | 41.325 | 24.773  |
|    | HEMBA1006410 | 149.580 | 32.840  | 61.022  | 20.027  | 39.718  | 54.551  | 23.826 | 33.928  |
|    | HEMBA1006416 | 96.031  | 62.892  | 198.896 | 50.538  | 38.551  | 37.025  | 37.809 | 33.447  |
|    | HEMBA1006418 | 23.236  | 18.335  | 23.851  | 11.378  | 10.280  | 28.208  | 46.245 | 36.223  |
|    | HEMBA1006419 | 189.293 | 101.979 | 476.145 | 90.626  | 79.213  | 64.306  | 40.042 | 52.384  |
| 40 | HEMBA1006421 | 39.702  | 26.487  | 127.221 | 23.773  | 16.184  | 14.460  | 12.270 | 13.523  |
|    | HEMBA1006424 | 4.484   | 36.452  | 10.588  | 3.778   | 4.512   | 7.346   | 2.324  | 3.323   |
|    | HEMBA1006426 | 88.597  | 67.224  | 230.530 | 60.836  | 32.273  | 40.489  | 17.284 | 36.244  |
|    | HEMBA1006430 | 61.672  | 17.989  | 69.151  | 15.913  | 11.038  | 15.595  | 9.696  | 17.632  |
|    | HEMBA1006438 | 45.084  | 34.475  | 111.512 | 27.012  | 15.035  | 34.111  | 12.678 | 11.056  |
|    | HEMBA1006445 | 48.245  | 13.919  | 53.981  | 9.326   | 15.672  | 34.167  | 27.442 | 18.331  |
| 45 | HEMBA1006446 | 22.911  | 3.160   | 3.324   | 1.568   | 4.341   | 2.585   | 1.331  | 0.000   |
|    | HEMBA1006456 | 36.915  | 28.165  | 141.114 | 18.927  | 65.823  | 33.549  | 13.651 | 33.405  |
|    | HEMBA1006461 | 60.747  | 42.392  | 161.108 | 40.447  | 22.274  | 32.823  | 18.018 | 27.165  |
|    | HEMBA1006467 | 13.357  | 6.136   | 15.734  | 10.759  | 4.032   | 4.471   | 6.183  | 2.655   |
|    | HEMBA1006470 | 73.960  | 30.706  | 103.625 | 27.235  | 29.870  | 33.756  | 33.818 | 24.286  |
|    | HEMBA1006471 | 19.032  | 4.504   | 7.503   | 2.933   | 2.522   | 5.224   | 10.020 | 1.873   |
|    | HEMBA1006474 | 25.718  | 12.420  | 21.381  | 11.498  | 9.614   | 19.875  | 17.655 | 13.491  |
| 50 | HEMBA1006476 | 180.042 | 91.936  | 63.588  | 43.462  | 42.248  | 109.725 | 88.725 | 65.945  |
|    | HEMBA1006482 | 129.627 | 169.312 | 167.982 | 151.338 | 57.839  | 95.521  | 75.480 | 239.325 |
|    | HEMBA1006483 | 99.620  | 64.773  | 232.207 | 50.445  | 29.074  | 37.572  | 23.818 | 27.130  |
|    | HEMBA1006485 | 41.690  | 4.055   | 17.445  | 11.682  | 4.522   | 9.351   | 6.411  | 10.066  |
|    | HEMBA1006486 | 76.250  | 36.421  | 29.634  | 46.687  | 17.302  | 21.229  | 17.832 | 15.706  |
| 55 | HEMBA1006489 | 5.771   | 32.673  | 2.141   | 5.240   | 2.356   | 4.324   | 4.739  | 7.328   |

Table 37

|    |              |         |         |         |         |         |         |         |        |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|--------|
|    | HEMBA1006492 | 14.002  | 19.916  | 24.662  | 35.451  | 8.836   | 8.075   | 11.419  | 12.090 |
|    | HEMBA1006494 | 7.279   | 0.000   | 19.790  | 3.750   | 8.718   | 8.343   | 5.851   | 5.887  |
| 5  | HEMBA1006497 | 41.284  | 12.396  | 23.326  | 6.590   | 7.186   | 11.228  | 9.062   | 5.781  |
|    | HEMBA1006501 | 160.565 | 16.895  | 26.893  | 13.446  | 17.608  | 65.467  | 41.560  | 6.197  |
|    | HEMBA1006502 | 53.451  | 19.114  | 39.593  | 25.366  | 10.919  | 15.054  | 17.536  | 15.658 |
|    | HEMBA1006507 | 19.274  | 8.180   | 10.287  | 4.521   | 7.939   | 5.288   | 15.480  | 10.062 |
|    | HEMBA1006517 | 95.989  | 30.085  | 91.871  | 18.732  | 21.918  | 45.881  | 29.819  | 16.672 |
|    | HEMBA1006521 | 31.224  | 27.873  | 37.864  | 18.318  | 9.774   | 14.205  | 14.646  | 13.907 |
| 10 | HEMBA1006529 | 28.702  | 20.010  | 34.050  | 20.150  | 16.588  | 7.353   | 8.993   | 17.327 |
|    | HEMBA1006530 | 18.445  | 16.411  | 29.175  | 14.433  | 12.214  | 16.734  | 15.731  | 8.081  |
|    | HEMBA1006535 | 11.627  | 7.208   | 18.048  | 3.956   | 8.160   | 19.824  | 5.837   | 3.457  |
|    | HEMBA1006536 | 68.087  | 40.009  | 142.475 | 43.263  | 34.343  | 42.050  | 42.157  | 23.975 |
|    | HEMBA1006540 | 20.393  | 10.867  | 35.153  | 8.637   | 8.656   | 15.027  | 11.094  | 10.350 |
|    | HEMBA1006544 | 30.281  | 4.662   | 59.940  | 7.791   | 7.169   | 15.883  | 8.745   | 8.693  |
| 15 | HEMBA1006546 | 68.722  | 53.155  | 127.193 | 49.337  | 73.807  | 60.506  | 22.328  | 34.045 |
|    | HEMBA1006549 | 13.885  | 13.666  | 21.800  | 11.666  | 8.491   | 14.211  | 8.987   | 6.080  |
|    | HEMBA1006559 | 26.976  | 22.040  | 38.197  | 16.910  | 14.550  | 14.058  | 13.018  | 17.217 |
|    | HEMBA1006562 | 55.924  | 24.663  | 75.789  | 20.363  | 17.181  | 26.651  | 18.158  | 19.510 |
|    | HEMBA1006566 | 20.849  | 6.116   | 14.933  | 8.767   | 9.572   | 6.937   | 5.229   | 4.788  |
|    | HEMBA1006569 | 67.508  | 20.299  | 44.291  | 27.048  | 12.798  | 15.243  | 24.739  | 31.861 |
| 20 | HEMBA1006572 | 21.817  | 4.339   | 15.862  | 1.796   | 3.407   | 11.582  | 8.381   | 5.922  |
|    | HEMBA1006579 | 5.427   | 18.336  | 4.219   | 3.440   | 2.139   | 5.460   | 3.967   | 5.110  |
|    | HEMBA1006583 | 31.967  | 15.854  | 29.307  | 14.271  | 11.747  | 26.889  | 17.058  | 10.451 |
|    | HEMBA1006595 | 59.014  | 41.577  | 148.359 | 30.660  | 16.681  | 19.571  | 13.265  | 24.768 |
|    | HEMBA1006597 | 111.817 | 64.480  | 210.001 | 47.574  | 27.392  | 47.009  | 27.887  | 28.666 |
|    | HEMBA1006606 | 79.184  | 47.311  | 131.822 | 40.177  | 33.228  | 35.403  | 25.240  | 31.687 |
| 25 | HEMBA1006612 | 43.105  | 20.909  | 46.913  | 39.205  | 20.348  | 25.383  | 18.706  | 17.150 |
|    | HEMBA1006617 | 79.139  | 62.924  | 235.236 | 60.258  | 30.407  | 40.264  | 28.184  | 38.643 |
|    | HEMBA1006624 | 449.384 | 84.050  | 165.494 | 39.352  | 209.908 | 291.427 | 208.533 | 65.478 |
|    | HEMBA1006631 | 168.309 | 108.316 | 381.778 | 89.696  | 71.812  | 80.634  | 39.325  | 50.996 |
|    | HEMBA1006635 | 51.406  | 33.730  | 158.286 | 28.605  | 19.347  | 19.781  | 9.639   | 12.894 |
|    | HEMBA1006639 | 67.363  | 30.354  | 51.867  | 15.409  | 33.210  | 43.083  | 25.295  | 12.985 |
| 30 | HEMBA1006643 | 229.685 | 30.246  | 56.218  | 16.406  | 35.196  | 68.642  | 41.724  | 17.931 |
|    | HEMBA1006648 | 80.985  | 32.464  | 39.607  | 14.926  | 36.718  | 12.135  | 32.217  | 48.853 |
|    | HEMBA1006652 | 118.455 | 69.232  | 231.917 | 50.609  | 51.023  | 50.716  | 21.698  | 29.527 |
|    | HEMBA1006653 | 46.971  | 16.614  | 46.472  | 16.579  | 12.358  | 15.364  | 13.867  | 9.224  |
|    | HEMBA1006658 | 89.823  | 28.363  | 60.976  | 37.660  | 28.124  | 47.014  | 33.470  | 16.872 |
|    | HEMBA1006659 | 79.863  | 33.626  | 48.217  | 49.132  | 29.124  | 33.070  | 25.182  | 33.784 |
| 35 | HEMBA1006665 | 25.726  | 26.740  | 39.661  | 13.975  | 13.287  | 15.240  | 12.046  | 10.419 |
|    | HEMBA1006666 | 8.276   | 4.281   | 10.565  | 6.319   | 4.257   | 10.392  | 2.791   | 2.171  |
|    | HEMBA1006671 | 39.553  | 178.623 | 135.413 | 18.941  | 17.294  | 37.782  | 10.166  | 32.048 |
|    | HEMBA1006674 | 100.472 | 44.108  | 176.724 | 46.922  | 36.367  | 44.809  | 43.576  | 43.269 |
|    | HEMBA1006676 | 120.417 | 42.888  | 163.816 | 29.504  | 40.435  | 60.162  | 32.540  | 34.825 |
|    | HEMBA1006682 | 27.104  | 2.556   | 23.174  | 4.035   | 8.982   | 19.092  | 3.958   | 0.000  |
|    | HEMBA1006688 | 57.351  | 56.288  | 111.358 | 60.597  | 65.322  | 37.545  | 20.757  | 20.789 |
| 40 | HEMBA1006695 | 132.496 | 140.334 | 315.655 | 97.296  | 56.206  | 54.392  | 37.622  | 57.596 |
|    | HEMBA1006696 | 65.136  | 25.204  | 42.137  | 26.654  | 26.490  | 30.156  | 6.159   | 27.512 |
|    | HEMBA1006702 | 4.275   | 4.328   | 8.881   | 7.114   | 3.362   | 1.846   | 7.796   | 1.965  |
|    | HEMBA1006707 | 52.417  | 20.766  | 26.862  | 21.409  | 19.843  | 32.229  | 13.146  | 18.546 |
|    | HEMBA1006708 | 126.875 | 38.520  | 66.803  | 31.253  | 33.294  | 55.347  | 32.071  | 18.229 |
|    | HEMBA1006709 | 67.500  | 31.686  | 94.432  | 24.924  | 17.365  | 30.329  | 18.603  | 23.474 |
| 45 | HEMBA1006717 | 110.641 | 21.536  | 29.255  | 12.664  | 16.091  | 54.326  | 26.752  | 11.544 |
|    | HEMBA1006724 | 34.421  | 23.073  | 25.607  | 18.231  | 12.305  | 27.570  | 10.585  | 17.797 |
|    | HEMBA1006731 | 36.072  | 18.255  | 41.441  | 15.382  | 16.479  | 17.272  | 10.826  | 15.482 |
|    | HEMBA1006737 | 60.467  | 14.107  | 30.096  | 14.542  | 20.232  | 22.606  | 10.316  | 11.440 |
|    | HEMBA1006742 | 60.258  | 45.190  | 134.964 | 35.452  | 21.315  | 21.889  | 15.223  | 23.529 |
|    | HEMBA1006743 | 41.970  | 22.864  | 31.760  | 22.024  | 15.126  | 23.989  | 13.179  | 16.281 |
|    | HEMBA1006744 | 181.068 | 97.273  | 433.004 | 103.006 | 69.785  | 59.354  | 46.770  | 61.806 |
| 50 | HEMBA1006749 | 51.776  | 9.753   | 37.994  | 13.564  | 23.164  | 34.516  | 28.426  | 23.238 |
|    | HEMBA1006752 | 124.800 | 60.318  | 88.111  | 59.765  | 47.490  | 69.461  | 37.541  | 47.074 |
|    | HEMBA1006754 | 49.957  | 30.459  | 86.726  | 23.747  | 17.745  | 16.269  | 10.783  | 12.424 |
|    | HEMBA1006758 | 75.460  | 21.737  | 26.190  | 19.832  | 18.249  | 38.492  | 30.654  | 15.933 |
|    | HEMBA1006767 | 14.002  | 15.106  | 11.961  | 16.059  | 5.628   | 13.334  | 8.382   | 8.573  |
| 55 | HEMBA1006770 | 120.485 | 21.505  | 62.144  | 29.559  | 32.512  | 49.739  | 45.952  | 28.318 |

Table 38

|              |         |        |         |         |         |         |         |        |
|--------------|---------|--------|---------|---------|---------|---------|---------|--------|
| HEMBA1006779 | 81.492  | 51.077 | 162.657 | 41.163  | 39.166  | 36.722  | 18.025  | 29.256 |
| HEMBA1006780 | 78.359  | 78.052 | 345.442 | 73.371  | 68.858  | 55.888  | 41.524  | 39.494 |
| HEMBA1006789 | 29.455  | 21.233 | 20.440  | 14.349  | 11.547  | 38.549  | 19.736  | 25.701 |
| HEMBA1006795 | 143.727 | 88.701 | 218.732 | 55.068  | 49.500  | 46.284  | 21.141  | 40.750 |
| HEMBA1006796 | 87.214  | 15.814 | 115.542 | 17.685  | 16.790  | 38.694  | 15.525  | 15.352 |
| HEMBA1006805 | 68.116  | 31.212 | 153.041 | 33.162  | 30.301  | 34.197  | 24.275  | 30.733 |
| HEMBA1006807 | 94.524  | 86.723 | 157.559 | 64.349  | 36.505  | 62.933  | 23.097  | 55.508 |
| HEMBA1006813 | 40.696  | 4.415  | 4.750   | 4.264   | 10.978  | 7.562   | 6.201   | 3.198  |
| HEMBA1006819 | 53.717  | 15.217 | 30.071  | 14.679  | 17.006  | 30.866  | 20.346  | 6.250  |
| HEMBA1006821 | 39.052  | 30.425 | 111.325 | 35.769  | 34.975  | 22.216  | 18.924  | 20.698 |
| HEMBA1006824 | 68.491  | 61.498 | 201.721 | 47.107  | 40.322  | 27.255  | 21.689  | 27.074 |
| HEMBA1006832 | 84.462  | 89.500 | 102.038 | 77.046  | 40.147  | 75.996  | 66.799  | 71.706 |
| HEMBA1006834 | 123.958 | 57.085 | 160.407 | 48.909  | 41.460  | 61.443  | 30.402  | 31.940 |
| HEMBA1006835 | 33.705  | 19.529 | 38.470  | 23.193  | 18.979  | 22.344  | 22.426  | 16.742 |
| HEMBA1006843 | 52.436  | 44.642 | 96.773  | 258.615 | 195.878 | 33.141  | 8.256   | 13.117 |
| HEMBA1006849 | 88.931  | 34.224 | 158.388 | 39.483  | 30.349  | 34.943  | 15.743  | 28.240 |
| HEMBA1006850 | 44.733  | 24.923 | 67.667  | 24.186  | 15.829  | 36.593  | 11.223  | 18.454 |
| HEMBA1006861 | 215.207 | 94.180 | 158.997 | 67.349  | 259.512 | 135.856 | 371.932 | 44.063 |
| HEMBA1006865 | 124.996 | 59.773 | 124.376 | 43.328  | 69.356  | 71.072  | 66.350  | 45.129 |
| HEMBA1006867 | 16.632  | 11.094 | 39.646  | 14.084  | 12.902  | 11.855  | 5.865   | 18.338 |
| HEMBA1006873 | 9.965   | 9.279  | 7.010   | 5.013   | 6.262   | 5.127   | 7.141   | 8.422  |
| HEMBA1006877 | 44.043  | 18.321 | 20.546  | 8.172   | 14.670  | 13.165  | 16.493  | 9.073  |
| HEMBA1006878 | 100.427 | 34.418 | 109.029 | 25.739  | 29.525  | 48.800  | 41.513  | 17.905 |
| HEMBA1006879 | 108.299 | 42.811 | 121.051 | 60.872  | 47.507  | 40.075  | 14.429  | 51.924 |
| HEMBA1006884 | 95.426  | 29.331 | 67.556  | 27.787  | 25.909  | 106.818 | 47.878  | 47.793 |
| HEMBA1006885 | 107.720 | 54.342 | 127.920 | 62.272  | 55.739  | 51.739  | 36.790  | 50.612 |
| HEMBA1006886 | 50.841  | 22.970 | 51.528  | 12.561  | 20.660  | 23.207  | 26.952  | 19.149 |
| HEMBA1006889 | 81.809  | 20.952 | 21.474  | 12.691  | 24.681  | 41.822  | 48.768  | 15.196 |
| HEMBA1006896 | 68.030  | 97.285 | 75.370  | 52.746  | 23.109  | 44.481  | 37.701  | 50.662 |
| HEMBA1006900 | 61.515  | 36.410 | 61.016  | 23.329  | 21.390  | 38.404  | 27.583  | 22.774 |
| HEMBA1006902 | 43.283  | 19.713 | 47.129  | 12.105  | 11.602  | 27.830  | 26.548  | 13.885 |
| HEMBA1006912 | 183.904 | 90.995 | 338.160 | 78.230  | 79.588  | 63.729  | 39.994  | 64.953 |
| HEMBA1006914 | 54.548  | 39.053 | 48.945  | 35.736  | 25.895  | 38.586  | 22.479  | 33.810 |
| HEMBA1006916 | 62.872  | 0.000  | 65.115  | 29.982  | 32.625  | 61.537  | 62.750  | 30.818 |
| HEMBA1006921 | 64.867  | 21.840 | 74.902  | 15.692  | 30.866  | 41.257  | 25.569  | 10.362 |
| HEMBA1006926 | 51.195  | 10.616 | 76.671  | 24.435  | 20.300  | 84.402  | 29.503  | 20.967 |
| HEMBA1006927 | 24.016  | 13.778 | 23.573  | 5.335   | 15.250  | 11.291  | 11.672  | 7.086  |
| HEMBA1006929 | 7.146   | 8.487  | 5.431   | 5.526   | 1.676   | 5.970   | 5.688   | 3.134  |
| HEMBA1006936 | 68.233  | 22.847 | 45.566  | 20.391  | 16.346  | 25.493  | 20.196  | 17.720 |
| HEMBA1006938 | 14.202  | 8.409  | 31.234  | 7.743   | 5.002   | 6.780   | 6.773   | 5.945  |
| HEMBA1006941 | 30.559  | 24.290 | 40.928  | 13.779  | 16.040  | 34.253  | 22.542  | 18.507 |
| HEMBA1006942 | 147.487 | 57.842 | 121.883 | 69.207  | 55.456  | 76.853  | 61.942  | 66.640 |
| HEMBA1006945 | 80.546  | 64.930 | 104.037 | 63.709  | 40.444  | 54.676  | 33.533  | 31.915 |
| HEMBA1006949 | 10.292  | 41.467 | 23.921  | 1.860   | 15.813  | 7.071   | 10.866  | 5.231  |
| HEMBA1006952 | 58.685  | 12.572 | 34.750  | 8.032   | 18.283  | 39.764  | 15.332  | 12.456 |
| HEMBA1006960 | 91.939  | 38.895 | 93.164  | 24.834  | 34.400  | 36.160  | 36.715  | 34.791 |
| HEMBA1006973 | 74.208  | 24.793 | 50.621  | 17.619  | 22.844  | 24.971  | 24.844  | 16.167 |
| HEMBA1006974 | 48.691  | 39.013 | 59.414  | 48.064  | 16.799  | 38.579  | 21.301  | 46.006 |
| HEMBA1006976 | 35.907  | 15.675 | 32.116  | 19.091  | 14.522  | 30.574  | 25.042  | 18.348 |
| HEMBA1006989 | 6.422   | 2.207  | 2.374   | 3.336   | 2.670   | 3.696   | 2.557   | 3.536  |
| HEMBA1006993 | 334.266 | 64.150 | 357.947 | 46.138  | 95.466  | 144.777 | 109.174 | 54.000 |
| HEMBA1006996 | 9.183   | 9.870  | 15.032  | 9.483   | 5.722   | 9.518   | 8.368   | 9.637  |
| HEMBA1007001 | 117.610 | 95.668 | 334.868 | 56.093  | 55.288  | 47.863  | 27.205  | 56.828 |
| HEMBA1007002 | 93.134  | 41.846 | 72.311  | 21.453  | 16.249  | 59.722  | 46.434  | 40.628 |
| HEMBA1007013 | 65.734  | 23.106 | 53.712  | 16.933  | 20.783  | 34.293  | 29.163  | 29.338 |
| HEMBA1007016 | 36.649  | 14.972 | 27.491  | 6.385   | 9.597   | 17.982  | 16.658  | 15.035 |
| HEMBA1007017 | 6.290   | 0.000  | 8.194   | 2.155   | 5.231   | 2.329   | 1.949   | 0.000  |
| HEMBA1007018 | 19.457  | 15.664 | 19.767  | 14.280  | 10.586  | 15.084  | 9.105   | 14.124 |
| HEMBA1007044 | 139.784 | 50.078 | 125.738 | 15.913  | 53.729  | 123.367 | 90.838  | 36.173 |
| HEMBA1007045 | 49.576  | 7.913  | 39.757  | 9.069   | 10.104  | 19.099  | 12.683  | 7.276  |
| HEMBA1007051 | 36.374  | 44.117 | 129.384 | 27.586  | 19.407  | 24.088  | 15.546  | 9.363  |
| HEMBA1007052 | 69.582  | 19.611 | 40.507  | 19.050  | 9.213   | 19.409  | 18.969  | 10.939 |
| HEMBA1007053 | 25.326  | 27.611 | 21.861  | 14.031  | 14.266  | 20.128  | 7.847   | 9.544  |
| HEMBA1007057 | 45.897  | 13.545 | 33.857  | 18.616  | 25.861  | 36.241  | 14.769  | 13.902 |

Table 39

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBA1007062 | 129.012 | 18.903  | 40.670  | 21.323  | 29.469  | 40.252  | 29.408  | 15.700  |
|    | HEMBA1007063 | 81.681  | 45.884  | 187.380 | 52.391  | 36.943  | 28.608  | 35.303  | 41.236  |
| 5  | HEMBA1007066 | 98.396  | 32.970  | 35.373  | 22.961  | 11.085  | 42.430  | 26.631  | 14.760  |
|    | HEMBA1007069 | 23.449  | 21.519  | 78.409  | 16.835  | 27.425  | 17.217  | 9.095   | 16.163  |
|    | HEMBA1007073 | 54.833  | 42.548  | 40.682  | 29.352  | 11.879  | 7.937   | 24.282  | 19.372  |
|    | HEMBA1007076 | 83.020  | 48.746  | 248.260 | 61.189  | 50.193  | 68.045  | 43.836  | 35.650  |
|    | HEMBA1007078 | 151.561 | 159.600 | 446.445 | 189.146 | 130.283 | 98.734  | 65.934  | 117.079 |
|    | HEMBA1007080 | 43.963  | 44.765  | 174.545 | 66.950  | 45.879  | 43.194  | 43.909  | 50.100  |
| 10 | HEMBA1007084 | 78.948  | 60.672  | 268.327 | 63.769  | 63.088  | 60.307  | 35.006  | 46.866  |
|    | HEMBA1007085 | 263.538 | 108.018 | 162.599 | 48.155  | 77.545  | 161.321 | 63.614  | 80.640  |
|    | HEMBA1007087 | 85.598  | 25.085  | 47.862  | 25.580  | 13.918  | 62.815  | 143.461 | 30.856  |
|    | HEMBA1007089 | 21.131  | 32.023  | 21.145  | 14.738  | 7.213   | 19.681  | 9.036   | 10.026  |
|    | HEMBA1007095 | 147.777 | 215.051 | 136.910 | 63.992  | 170.706 | 117.992 | 103.152 | 86.452  |
|    | HEMBA1007101 | 78.959  | 53.790  | 147.891 | 35.676  | 28.082  | 27.200  | 19.131  | 25.922  |
| 15 | HEMBA1007104 | 66.308  | 23.279  | 45.417  | 11.902  | 19.468  | 48.054  | 26.760  | 16.647  |
|    | HEMBA1007106 | 28.449  | 17.761  | 41.268  | 28.670  | 17.681  | 14.174  | 10.999  | 7.534   |
|    | HEMBA1007112 | 12.759  | 8.412   | 16.340  | 9.319   | 7.661   | 7.304   | 13.296  | 6.622   |
|    | HEMBA1007113 | 126.702 | 0.000   | 229.408 | 64.551  | 40.242  | 39.032  | 13.319  | 26.174  |
|    | HEMBA1007121 | 219.036 | 207.410 | 696.658 | 149.217 | 168.827 | 131.628 | 642.099 | 128.755 |
|    | HEMBA1007129 | 50.726  | 42.510  | 63.847  | 31.663  | 26.417  | 24.371  | 18.928  | 20.103  |
| 20 | HEMBA1007147 | 111.299 | 117.722 | 312.811 | 79.949  | 67.395  | 74.391  | 35.758  | 54.184  |
|    | HEMBA1007149 | 83.453  | 6.442   | 19.831  | 7.332   | 11.043  | 9.349   | 9.831   | 8.756   |
|    | HEMBA1007151 | 97.211  | 33.530  | 53.944  | 24.544  | 18.501  | 35.246  | 36.228  | 24.174  |
|    | HEMBA1007172 | 52.683  | 25.324  | 438.704 | 42.182  | 28.599  | 38.126  | 26.167  | 25.770  |
|    | HEMBA1007174 | 52.921  | 13.482  | 44.770  | 21.384  | 19.520  | 28.559  | 22.332  | 20.471  |
|    | HEMBA1007176 | 89.919  | 24.768  | 53.414  | 32.841  | 44.643  | 73.679  | 87.040  | 30.762  |
| 25 | HEMBA1007178 | 93.941  | 73.120  | 135.427 | 34.313  | 32.040  | 34.622  | 22.898  | 24.897  |
|    | HEMBA1007185 | 62.558  | 18.807  | 36.824  | 15.490  | 20.528  | 37.568  | 22.260  | 12.783  |
|    | HEMBA1007186 | 70.967  | 31.546  | 59.038  | 21.059  | 21.332  | 35.648  | 42.864  | 11.346  |
|    | HEMBA1007194 | 53.376  | 38.911  | 126.660 | 33.992  | 23.875  | 21.109  | 12.122  | 23.307  |
|    | HEMBA1007200 | 74.955  | 53.829  | 44.212  | 23.979  | 20.225  | 32.762  | 55.417  | 22.176  |
|    | HEMBA1007203 | 87.803  | 26.807  | 41.357  | 14.648  | 9.791   | 23.392  | 30.167  | 17.274  |
| 30 | HEMBA1007206 | 82.800  | 73.675  | 225.293 | 44.461  | 28.674  | 37.091  | 14.673  | 34.505  |
|    | HEMBA1007224 | 25.614  | 40.402  | 50.116  | 21.484  | 14.920  | 22.548  | 13.197  | 20.053  |
|    | HEMBA1007226 | 88.512  | 43.606  | 93.121  | 22.209  | 17.911  | 38.704  | 43.759  | 31.721  |
|    | HEMBA1007240 | 131.657 | 62.804  | 86.650  | 9.510   | 21.890  | 53.116  | 42.250  | 16.655  |
|    | HEMBA1007241 | 12.225  | 7.719   | 18.461  | 5.051   | 6.724   | 15.945  | 3.135   | 5.390   |
|    | HEMBA1007242 | 21.409  | 14.030  | 13.648  | 11.068  | 6.265   | 17.370  | 8.487   | 5.236   |
| 35 | HEMBA1007243 | 61.824  | 25.854  | 40.264  | 17.235  | 23.438  | 39.197  | 31.904  | 20.347  |
|    | HEMBA1007251 | 37.660  | 16.946  | 37.149  | 16.699  | 12.180  | 19.482  | 30.321  | 10.262  |
|    | HEMBA1007256 | 53.905  | 43.642  | 113.110 | 31.642  | 27.946  | 30.492  | 18.548  | 23.645  |
|    | HEMBA1007267 | 80.741  | 40.085  | 207.160 | 61.174  | 38.220  | 29.008  | 32.292  | 29.672  |
|    | HEMBA1007273 | 41.062  | 9.087   | 11.906  | 5.193   | 6.445   | 7.723   | 9.225   | 4.483   |
|    | HEMBA1007279 | 54.376  | 20.734  | 133.494 | 27.987  | 21.355  | 19.941  | 17.364  | 19.503  |
| 40 | HEMBA1007281 | 8.523   | 5.717   | 4.731   | 3.403   | 2.317   | 2.497   | 2.740   | 0.000   |
|    | HEMBA1007283 | 25.940  | 14.444  | 24.974  | 23.487  | 19.771  | 23.418  | 19.378  | 26.409  |
|    | HEMBA1007288 | 57.959  | 39.576  | 155.227 | 28.725  | 24.689  | 25.110  | 16.998  | 16.095  |
|    | HEMBA1007291 | 37.974  | 19.069  | 59.253  | 20.445  | 13.404  | 17.376  | 13.060  | 13.147  |
|    | HEMBA1007299 | 446.640 | 93.668  | 199.852 | 61.423  | 94.129  | 249.345 | 241.373 | 85.323  |
|    | HEMBA1007300 | 103.752 | 25.694  | 24.914  | 18.217  | 40.413  | 26.018  | 31.407  | 16.669  |
| 45 | HEMBA1007301 | 49.752  | 18.178  | 32.677  | 18.170  | 33.650  | 33.786  | 22.892  | 12.782  |
|    | HEMBA1007319 | 13.312  | 10.598  | 23.453  | 16.511  | 4.278   | 9.382   | 2.996   | 8.570   |
|    | HEMBA1007320 | 53.723  | 23.595  | 62.301  | 29.439  | 16.672  | 32.932  | 28.191  | 18.418  |
|    | HEMBA1007322 | 45.986  | 125.362 | 77.545  | 43.693  | 17.955  | 45.689  | 39.556  | 80.836  |
|    | HEMBA1007323 | 64.720  | 16.869  | 22.970  | 11.238  | 11.687  | 32.209  | 25.350  | 7.506   |
|    | HEMBA1007326 | 313.094 | 189.188 | 862.276 | 214.045 | 178.109 | 171.587 | 70.819  | 115.174 |
| 50 | HEMBA1007327 | 78.767  | 61.102  | 219.980 | 55.002  | 29.411  | 44.095  | 29.354  | 42.286  |
|    | HEMBA1007332 | 71.516  | 9.318   | 34.879  | 5.559   | 7.452   | 24.826  | 12.763  | 20.050  |
|    | HEMBA1007341 | 89.805  | 53.431  | 207.395 | 82.402  | 105.877 | 47.861  | 32.826  | 50.162  |
|    | HEMBA1007342 | 22.063  | 17.289  | 28.253  | 18.196  | 17.751  | 26.378  | 13.820  | 9.173   |
|    | HEMBA1007347 | 112.392 | 64.499  | 230.022 | 60.348  | 47.557  | 63.758  | 30.683  | 33.285  |
|    | HEMBA1007353 | 1.685   | 3.520   | 0.575   | 1.860   | 1.976   | 0.107   | 2.061   | 0.788   |
| 55 | HEMBA1000005 | 60.047  | 46.027  | 121.870 | 38.241  | 20.699  | 18.268  | 20.068  | 26.957  |
|    | HEMBA1000008 | 97.929  | 53.604  | 274.179 | 68.681  | 38.935  | 39.328  | 26.881  | 34.873  |

Table 40

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEMBS1000018 | 122.130 | 127.861 | 329.165 | 120.419 | 57.867  | 95.203  | 75.902  | 92.924  |
|    | HEMBS1000024 | 181.606 | 97.019  | 373.954 | 102.401 | 70.406  | 70.591  | 40.304  | 66.798  |
| 5  | HEMBS1000025 | 85.919  | 29.049  | 45.055  | 23.789  | 13.946  | 24.397  | 29.349  | 13.072  |
|    | HEMBS1000030 | 108.167 | 68.316  | 303.677 | 83.010  | 68.378  | 81.687  | 34.886  | 37.617  |
|    | HEMBS1000036 | 107.960 | 11.573  | 50.484  | 11.277  | 20.480  | 41.381  | 25.378  | 14.730  |
|    | HEMBS1000037 | 77.688  | 29.380  | 69.658  | 56.679  | 27.020  | 54.062  | 30.086  | 15.311  |
|    | HEMBS1000039 | 52.550  | 48.503  | 140.795 | 30.096  | 18.739  | 26.012  | 15.151  | 21.723  |
| 10 | HEMBS1000044 | 134.136 | 75.469  | 218.667 | 61.596  | 32.667  | 29.659  | 43.360  | 42.831  |
|    | HEMBS1000048 | 17.937  | 21.052  | 31.004  | 18.291  | 11.321  | 20.120  | 21.506  | 15.078  |
|    | HEMBS1000050 | 74.210  | 33.681  | 207.484 | 35.691  | 22.905  | 25.584  | 18.572  | 17.494  |
|    | HEMBS1000054 | 68.273  | 47.191  | 246.350 | 44.008  | 24.522  | 29.259  | 22.570  | 21.316  |
|    | HEMBS1000055 | 72.875  | 112.284 | 61.172  | 110.297 | 21.358  | 70.636  | 93.824  | 132.288 |
|    | HEMBS1000059 | 331.577 | 184.687 | 662.540 | 182.481 | 130.065 | 131.364 | 90.002  | 121.903 |
|    | HEMBS1000072 | 240.733 | 98.890  | 326.893 | 75.919  | 67.742  | 118.222 | 108.108 | 91.458  |
| 15 | HEMBS1000081 | 23.738  | 27.174  | 85.100  | 21.146  | 30.856  | 20.458  | 7.513   | 15.351  |
|    | HEMBS1000083 | 120.759 | 58.163  | 188.224 | 40.609  | 37.789  | 59.334  | 33.712  | 39.101  |
|    | HEMBS1000089 | 67.618  | 54.952  | 191.832 | 56.629  | 24.609  | 36.847  | 30.680  | 26.912  |
|    | HEMBS1000094 | 355.534 | 116.828 | 161.958 | 31.504  | 29.300  | 49.613  | 36.239  | 35.197  |
|    | HEMBS1000097 | 27.834  | 63.724  | 51.488  | 14.249  | 22.834  | 34.068  | 18.547  | 16.455  |
| 20 | HEMBS1000099 | 157.641 | 91.912  | 456.470 | 71.078  | 50.739  | 64.471  | 32.108  | 43.354  |
|    | HEMBS1000103 | 75.781  | 59.392  | 114.974 | 44.216  | 31.915  | 47.628  | 23.669  | 56.268  |
|    | HEMBS1000106 | 62.814  | 44.996  | 77.918  | 35.044  | 19.825  | 40.409  | 26.156  | 46.001  |
|    | HEMBS1000113 | 43.660  | 33.435  | 95.987  | 42.744  | 19.714  | 20.114  | 15.899  | 21.606  |
|    | HEMBS1000119 | 57.350  | 21.211  | 42.528  | 17.770  | 19.517  | 28.754  | 23.570  | 30.104  |
|    | HEMBS1000133 | 92.950  | 65.230  | 58.619  | 69.544  | 53.706  | 104.229 | 39.058  | 80.858  |
|    | HEMBS1000134 | 44.120  | 20.654  | 76.693  | 40.611  | 24.712  | 37.185  | 42.327  | 21.963  |
| 25 | HEMBS1000136 | 21.810  | 7.191   | 44.517  | 15.599  | 7.339   | 22.582  | 12.399  | 24.899  |
|    | HEMBS1000141 | 163.867 | 99.946  | 331.822 | 95.807  | 55.858  | 64.560  | 36.737  | 52.602  |
|    | HEMBS1000144 | 96.831  | 97.019  | 183.423 | 88.529  | 36.185  | 15.577  | 29.259  | 32.144  |
|    | HEMBS1000147 | 59.253  | 9.088   | 62.426  | 7.391   | 11.451  | 7.175   | 11.502  | 10.693  |
|    | HEMBS1000152 | 56.391  | 28.723  | 34.597  | 15.309  | 19.424  | 32.469  | 29.105  | 19.117  |
|    | HEMBS1000154 | 85.308  | 47.878  | 101.061 | 33.881  | 19.477  | 27.298  | 20.174  | 15.366  |
| 30 | HEMBS1000155 | 35.691  | 36.132  | 109.038 | 28.164  | 29.608  | 22.283  | 16.557  | 17.041  |
|    | HEMBS1000173 | 170.611 | 173.001 | 494.253 | 143.666 | 83.705  | 123.932 | 65.317  | 76.388  |
|    | HEMBS1000175 | 32.273  | 19.114  | 23.481  | 10.948  | 4.039   | 29.180  | 7.135   | 13.322  |
|    | HEMBS1000176 | 56.984  | 51.334  | 90.749  | 69.004  | 40.144  | 52.980  | 25.845  | 19.359  |
|    | HEMBS1000198 | 70.426  | 12.768  | 26.381  | 10.237  | 6.266   | 11.215  | 8.858   | 5.363   |
|    | HEMBS1000208 | 42.474  | 8.966   | 34.929  | 10.418  | 12.883  | 9.285   | 12.335  | 7.978   |
| 35 | HEMBS1000209 | 43.846  | 10.700  | 9.943   | 10.934  | 8.858   | 12.135  | 9.049   | 4.168   |
|    | HEMBS1000212 | 27.532  | 12.579  | 76.077  | 15.361  | 33.518  | 17.471  | 13.132  | 16.552  |
|    | HEMBS1000215 | 178.324 | 89.053  | 294.606 | 95.420  | 68.598  | 89.720  | 51.270  | 61.235  |
|    | HEMBS1000217 | 148.073 | 45.416  | 96.614  | 47.569  | 37.572  | 89.989  | 48.073  | 33.510  |
|    | HEMBS1000218 | 88.298  | 123.000 | 347.859 | 84.124  | 41.828  | 57.417  | 21.147  | 34.605  |
|    | HEMBS1000226 | 70.693  | 14.949  | 41.586  | 31.786  | 30.261  | 28.577  | 14.779  | 27.177  |
| 40 | HEMBS1000230 | 28.681  | 8.910   | 13.549  | 5.500   | 3.547   | 9.616   | 6.632   | 3.293   |
|    | HEMBS1000240 | 44.662  | 12.588  | 13.211  | 10.455  | 4.589   | 41.554  | 8.171   | 7.082   |
|    | HEMBS1000244 | 22.390  | 13.510  | 42.662  | 18.503  | 18.758  | 11.192  | 2.111   | 13.188  |
|    | HEMBS1000250 | 20.878  | 6.254   | 20.741  | 9.109   | 1.841   | 13.561  | 9.540   | 2.708   |
|    | HEMBS1000258 | 101.717 | 75.034  | 336.781 | 79.281  | 52.303  | 67.231  | 33.313  | 34.880  |
|    | HEMBS1000264 | 99.327  | 57.280  | 269.540 | 83.791  | 39.799  | 96.654  | 62.346  | 79.783  |
|    | HEMBS1000266 | 70.747  | 23.082  | 23.217  | 14.456  | 28.745  | 34.547  | 15.022  | 15.672  |
| 45 | HEMBS1000272 | 14.990  | 14.502  | 10.270  | 6.954   | 12.730  | 6.133   | 4.205   | 16.611  |
|    | HEMBS1000274 | 105.245 | 46.925  | 190.978 | 49.759  | 41.568  | 43.127  | 18.199  | 25.826  |
|    | HEMBS1000276 | 6.479   | 2.218   | 2.501   | 4.783   | 1.754   | 2.070   | 2.079   | 1.252   |
|    | HEMBS1000284 | 4.790   | 5.088   | 7.884   | 3.489   | 2.213   | 3.213   | 1.981   | 3.304   |
|    | HEMBS1000307 | 52.330  | 30.191  | 128.450 | 28.961  | 22.039  | 15.869  | 9.113   | 21.677  |
| 50 | HEMBS1000309 | 86.347  | 36.463  | 96.140  | 43.964  | 34.442  | 33.118  | 18.805  | 21.507  |
|    | HEMBS1000312 | 41.862  | 30.986  | 40.349  | 24.933  | 7.383   | 79.360  | 24.114  | 16.788  |
|    | HEMBS1000317 | 49.311  | 18.053  | 26.189  | 10.490  | 10.102  | 21.107  | 12.632  | 13.384  |
|    | HEMBS1000318 | 87.180  | 33.847  | 208.954 | 43.556  | 23.043  | 27.764  | 9.191   | 17.641  |
|    | HEMBS1000332 | 3.892   | 11.256  | 14.087  | 42.331  | 28.145  | 14.132  | 2.408   | 14.319  |
|    | HEMBS1000335 | 27.939  | 30.864  | 21.167  | 28.071  | 12.651  | 30.027  | 12.746  | 21.753  |
| 55 | HEMBS1000336 | 68.463  | 26.023  | 48.843  | 10.608  | 22.871  | 23.654  | 23.868  | 13.927  |
|    | HEMBS1000337 | 289.853 | 59.290  | 93.527  | 52.168  | 54.197  | 125.769 | 126.562 | 60.614  |

Table 41

|    |              |         |         |          |         |         |         |         |         |
|----|--------------|---------|---------|----------|---------|---------|---------|---------|---------|
|    | HEM881000338 | 54.685  | 45.765  | 123.480  | 44.612  | 17.722  | 26.663  | 17.708  | 29.721  |
|    | HEM881000339 | 144.258 | 108.124 | 265.125  | 105.421 | 89.798  | 89.055  | 56.944  | 50.241  |
| 5  | HEM881000341 | 113.271 | 46.622  | 132.906  | 32.751  | 40.166  | 37.986  | 28.017  | 30.881  |
|    | HEM881000343 | 130.737 | 71.935  | 259.845  | 80.183  | 46.681  | 45.761  | 43.928  | 46.721  |
|    | HEM881000354 | 202.146 | 151.264 | 495.642  | 157.908 | 153.529 | 142.579 | 67.161  | 105.322 |
|    | HEM881000358 | 92.244  | 22.827  | 29.160   | 24.670  | 22.387  | 48.989  | 59.506  | 28.803  |
|    | HEM881000369 | 55.720  | 25.874  | 97.758   | 27.483  | 21.576  | 23.750  | 17.278  | 16.569  |
|    | HEM881000373 | 52.572  | 59.105  | 70.779   | 61.379  | 38.792  | 44.185  | 31.504  | 45.653  |
| 10 | HEM881000374 | 153.545 | 115.183 | 389.274  | 108.150 | 98.073  | 80.319  | 58.214  | 75.906  |
|    | HEM881000376 | 95.394  | 132.554 | 369.986  | 146.818 | 60.328  | 63.876  | 73.647  | 43.202  |
|    | HEM881000383 | 37.023  | 35.429  | 24.954   | 13.017  | 10.381  | 22.638  | 16.842  | 8.781   |
|    | HEM881000391 | 127.327 | 30.055  | 106.971  | 24.962  | 30.891  | 57.827  | 37.484  | 11.921  |
|    | HEM881000399 | 35.143  | 10.865  | 22.406   | 8.561   | 4.100   | 8.569   | 2.643   | 8.889   |
|    | HEM881000402 | 82.616  | 20.485  | 44.946   | 25.430  | 13.012  | 19.024  | 7.725   | 18.695  |
| 15 | HEM881000404 | 18.903  | 12.568  | 10.300   | 8.593   | 9.455   | 9.301   | 2.672   | 7.956   |
|    | HEM881000407 | 19.286  | 8.572   | 18.593   | 3.281   | 2.599   | 13.454  | 2.473   | 3.407   |
|    | HEM881000420 | 95.847  | 66.573  | 138.307  | 54.950  | 39.330  | 56.220  | 37.608  | 43.081  |
|    | HEM881000430 | 274.820 | 161.981 | 153.601  | 40.874  | 406.081 | 489.107 | 693.805 | 115.638 |
|    | HEM881000434 | 350.936 | 139.481 | 599.497  | 199.198 | 125.426 | 113.500 | 65.776  | 77.687  |
|    | HEM881000438 | 67.342  | 10.187  | 25.472   | 7.736   | 8.148   | 27.875  | 7.217   | 6.701   |
| 20 | HEM881000441 | 84.086  | 98.109  | 312.643  | 78.842  | 60.934  | 76.141  | 46.589  | 35.267  |
|    | HEM881000447 | 76.519  | 88.156  | 54.883   | 26.628  | 31.157  | 24.328  | 25.777  | 38.008  |
|    | HEM881000449 | 22.367  | 11.282  | 25.245   | 11.267  | 1.700   | 13.053  | 5.731   | 8.109   |
|    | HEM881000453 | 26.781  | 29.875  | 49.056   | 22.139  | 35.305  | 22.456  | 14.006  | 15.902  |
|    | HEM881000455 | 37.937  | 43.401  | 129.423  | 29.222  | 40.584  | 24.577  | 21.227  | 20.356  |
|    | HEM881000472 | 146.390 | 61.195  | 235.753  | 80.306  | 44.122  | 82.882  | 52.783  | 87.457  |
| 25 | HEM881000480 | 138.135 | 67.904  | 194.466  | 46.367  | 41.944  | 60.409  | 34.897  | 40.785  |
|    | HEM881000486 | 78.511  | 63.045  | 211.876  | 47.786  | 39.049  | 36.558  | 20.396  | 17.632  |
|    | HEM881000487 | 21.510  | 22.091  | 29.116   | 10.718  | 21.056  | 15.854  | 13.086  | 10.892  |
|    | HEM881000490 | 232.419 | 148.116 | 562.064  | 159.218 | 134.370 | 107.861 | 60.296  | 110.306 |
|    | HEM881000491 | 149.070 | 107.169 | 349.100  | 81.342  | 44.330  | 51.147  | 33.633  | 59.342  |
|    | HEM881000492 | 18.194  | 21.930  | 19.080   | 9.690   | 6.821   | 10.632  | 9.805   | 5.454   |
| 30 | HEM881000493 | 286.390 | 34.074  | 64.876   | 31.406  | 23.065  | 49.816  | 39.824  | 39.921  |
|    | HEM881000510 | 133.225 | 95.239  | 380.177  | 165.002 | 101.728 | 72.504  | 64.646  | 83.048  |
|    | HEM881000516 | 137.574 | 35.610  | 61.963   | 35.305  | 10.932  | 78.851  | 39.905  | 19.224  |
|    | HEM881000518 | 8.388   | 3.267   | 26.133   | 5.489   | 1.531   | 1.500   | 1.611   | 1.901   |
|    | HEM881000523 | 153.793 | 88.071  | 329.880  | 82.474  | 43.568  | 69.756  | 32.830  | 51.127  |
|    | HEM881000530 | 46.151  | 13.390  | 40.950   | 8.319   | 32.799  | 6.126   | 10.689  | 8.426   |
| 35 | HEM881000542 | 57.808  | 36.831  | 46.332   | 20.306  | 19.414  | 5.489   | 13.314  | 22.747  |
|    | HEM881000550 | 39.123  | 26.036  | 79.169   | 22.945  | 10.597  | 23.147  | 37.266  | 20.568  |
|    | HEM881000554 | 192.214 | 105.635 | 349.184  | 148.874 | 90.632  | 98.169  | 55.377  | 100.995 |
|    | HEM881000556 | 100.759 | 22.180  | 68.289   | 37.737  | 35.176  | 41.190  | 47.163  | 40.726  |
|    | HEM881000564 | 101.412 | 37.586  | 144.386  | 37.463  | 27.344  | 59.939  | 31.447  | 9.452   |
|    | HEM881000567 | 361.516 | 76.515  | 125.177  | 66.960  | 83.698  | 221.216 | 145.840 | 54.204  |
| 40 | HEM881000569 | 63.847  | 46.712  | 54.356   | 18.197  | 23.752  | 36.942  | 31.264  | 39.479  |
|    | HEM881000573 | 99.088  | 89.487  | 373.557  | 76.986  | 76.236  | 63.534  | 39.587  | 58.648  |
|    | HEM881000575 | 74.071  | 67.726  | 296.427  | 63.469  | 37.530  | 42.388  | 33.544  | 46.151  |
|    | HEM881000579 | 27.868  | 12.805  | 18.934   | 6.889   | 3.743   | 24.452  | 24.367  | 23.262  |
|    | HEM881000585 | 30.826  | 34.244  | 65.882   | 26.172  | 19.828  | 26.184  | 16.826  | 33.888  |
|    | HEM881000586 | 85.397  | 75.643  | 187.543  | 99.762  | 48.456  | 35.430  | 28.693  | 50.228  |
| 45 | HEM881000589 | 135.404 | 58.619  | 243.853  | 51.181  | 36.284  | 29.883  | 21.561  | 27.997  |
|    | HEM881000591 | 99.680  | 60.946  | 242.306  | 54.695  | 36.589  | 52.616  | 32.332  | 33.066  |
|    | HEM881000592 | 30.320  | 18.740  | 34.338   | 11.753  | 8.732   | 28.305  | 13.707  | 12.164  |
|    | HEM881000593 | 148.639 | 68.816  | 255.892  | 61.084  | 46.829  | 61.565  | 49.545  | 66.588  |
|    | HEM881000595 | 27.140  | 21.001  | 29.869   | 21.272  | 9.199   | 21.841  | 16.487  | 29.680  |
|    | HEM881000598 | 39.074  | 31.891  | 85.011   | 22.815  | 13.772  | 21.958  | 13.576  | 26.747  |
| 50 | HEM881000611 | 14.828  | 6.552   | 11.601   | 7.498   | 7.461   | 15.614  | 9.246   | 9.161   |
|    | HEM881000617 | 193.986 | 137.945 | 458.678  | 127.725 | 87.855  | 84.583  | 46.273  | 77.986  |
|    | HEM881000623 | 65.566  | 26.480  | 50.777   | 19.193  | 18.923  | 40.974  | 28.571  | 23.219  |
|    | HEM881000630 | 62.606  | 23.074  | 40.815   | 18.796  | 14.186  | 31.973  | 21.492  | 13.779  |
|    | HEM881000631 | 61.311  | 41.283  | 27.586   | 23.498  | 24.433  | 35.043  | 48.566  | 22.826  |
|    | HEM881000632 | 58.747  | 55.433  | 156.750  | 30.460  | 29.661  | 33.497  | 21.899  | 21.857  |
| 55 | HEM881000636 | 127.885 | 47.562  | 59.456   | 48.965  | 33.643  | 65.366  | 42.360  | 37.349  |
|    | HEM881000637 | 817.391 | 628.017 | 1645.738 | 524.605 | 482.307 | 443.855 | 191.753 | 265.704 |

Table 42

|    |              |          |         |         |         |         |          |          |         |
|----|--------------|----------|---------|---------|---------|---------|----------|----------|---------|
|    | HEM881000638 | 55.058   | 47.453  | 95.751  | 42.262  | 25.684  | 15.056   | 22.121   | 28.829  |
|    | HEM881000642 | 179.188  | 88.317  | 251.754 | 80.865  | 42.468  | 81.296   | 37.696   | 52.009  |
| 5  | HEM881000643 | 43.411   | 25.689  | 113.037 | 18.985  | 11.038  | 14.245   | 8.276    | 18.743  |
|    | HEM881000649 | 27.852   | 45.202  | 137.371 | 34.816  | 24.496  | 9.967    | 11.881   | 22.322  |
|    | HEM881000652 | 84.942   | 61.856  | 126.562 | 78.131  | 42.090  | 36.343   | 22.852   | 31.597  |
|    | HEM881000655 | 418.308  | 73.377  | 56.858  | 57.166  | 32.733  | 57.424   | 38.897   | 44.477  |
|    | HEM881000665 | 16.253   | 13.954  | 10.766  | 20.817  | 6.796   | 13.110   | 7.987    | 4.458   |
|    | HEM881000668 | 28.587   | 13.435  | 14.606  | 13.788  | 25.844  | 15.049   | 12.549   | 11.202  |
| 10 | HEM881000671 | 239.020  | 122.952 | 561.221 | 119.970 | 96.244  | 75.058   | 66.812   | 88.267  |
|    | HEM881000673 | 11.633   | 5.779   | 14.629  | 14.904  | 5.916   | 4.811    | 2.141    | 12.812  |
|    | HEM881000679 | 16.899   | 7.357   | 23.438  | 7.697   | 1.049   | 30.246   | 7.774    | 7.063   |
|    | HEM881000684 | 188.240  | 157.754 | 430.254 | 128.150 | 66.411  | 89.722   | 49.173   | 67.832  |
|    | HEM881000692 | 4.978    | 9.265   | 11.569  | 5.085   | 1.158   | 3.240    | 3.421    | 1.785   |
|    | HEM881000693 | 63.119   | 40.561  | 59.522  | 22.326  | 25.408  | 13.898   | 31.488   | 20.706  |
| 15 | HEM881000705 | 15.560   | 31.798  | 122.757 | 36.451  | 19.928  | 11.568   | 2.839    | 10.179  |
|    | HEM881000706 | 22.553   | 13.626  | 23.777  | 8.621   | 11.683  | 41.509   | 10.019   | 7.584   |
|    | HEM881000709 | 74.737   | 77.864  | 245.726 | 50.833  | 51.093  | 50.427   | 37.955   | 51.357  |
|    | HEM881000714 | 23.726   | 10.733  | 6.625   | 12.298  | 6.349   | 9.891    | 2.142    | 14.350  |
|    | HEM881000725 | 24.239   | 9.575   | 11.437  | 13.761  | 12.596  | 17.372   | 8.105    | 16.144  |
|    | HEM881000726 | 86.971   | 84.395  | 208.396 | 65.157  | 43.881  | 37.441   | 22.020   | 39.067  |
| 20 | HEM881000729 | 51.556   | 25.288  | 140.931 | 23.005  | 27.775  | 18.629   | 12.838   | 14.902  |
|    | HEM881000738 | 39.002   | 38.955  | 166.616 | 42.588  | 21.380  | 43.330   | 7.181    | 21.192  |
|    | HEM881000749 | 115.917  | 94.942  | 454.741 | 136.454 | 54.340  | 39.253   | 32.933   | 49.141  |
|    | HEM881000763 | 47.835   | 25.201  | 36.488  | 16.952  | 21.036  | 31.919   | 14.990   | 12.111  |
|    | HEM881000770 | 30.598   | 45.410  | 167.003 | 32.786  | 26.482  | 25.698   | 18.186   | 24.127  |
|    | HEM881000774 | 27.168   | 21.690  | 33.470  | 20.937  | 12.916  | 22.598   | 8.092    | 17.606  |
| 25 | HEM881000777 | 246.286  | 57.131  | 58.743  | 31.851  | 40.345  | 119.113  | 81.364   | 53.990  |
|    | HEM881000781 | 41.945   | 36.620  | 34.149  | 24.543  | 23.561  | 16.383   | 14.371   | 20.775  |
|    | HEM881000788 | 10.756   | 10.608  | 5.481   | 6.429   | 2.950   | 5.995    | 4.522    | 4.589   |
|    | HEM881000789 | 28.490   | 9.620   | 26.151  | 16.088  | 11.640  | 16.477   | 7.916    | 7.672   |
|    | HEM881000790 | 74.318   | 56.925  | 185.959 | 63.749  | 33.523  | 24.232   | 24.414   | 28.423  |
|    | HEM881000794 | 18.080   | 17.254  | 38.876  | 24.305  | 7.427   | 10.338   | 5.445    | 9.305   |
| 30 | HEM881000807 | 50.070   | 31.869  | 22.751  | 19.865  | 20.934  | 27.002   | 18.350   | 27.280  |
|    | HEM881000809 | 334.541  | 42.976  | 42.300  | 26.454  | 9.545   | 31.526   | 31.677   | 44.152  |
|    | HEM881000810 | 189.365  | 50.676  | 163.325 | 33.349  | 38.994  | 74.400   | 45.398   | 19.262  |
|    | HEM881000821 | 40.710   | 9.304   | 21.006  | 6.841   | 5.422   | 15.981   | 10.835   | 5.685   |
|    | HEM881000822 | 8.726    | 3.570   | 3.541   | 1.411   | 7.255   | 5.519    | 1.285    | 1.525   |
|    | HEM881000826 | 68.485   | 40.348  | 201.149 | 68.467  | 43.204  | 31.769   | 32.812   | 55.367  |
| 35 | HEM881000827 | 50.671   | 34.326  | 108.391 | 32.945  | 15.076  | 25.813   | 18.713   | 25.457  |
|    | HEM881000831 | 38.060   | 20.465  | 29.131  | 12.368  | 19.990  | 20.562   | 25.373   | 6.415   |
|    | HEM881000835 | 59.181   | 56.345  | 127.358 | 58.150  | 44.350  | 35.831   | 25.687   | 35.108  |
|    | HEM881000840 | 117.639  | 63.375  | 340.802 | 61.186  | 48.924  | 38.995   | 20.712   | 30.526  |
|    | HEM881000848 | 98.938   | 53.024  | 210.423 | 42.569  | 28.984  | 47.603   | 29.642   | 29.431  |
|    | HEM881000852 | 1.827    | 2.160   | 0.621   | 2.559   | 1.621   | 1.272    | 1.364    | 1.086   |
| 40 | HEM881000857 | 16.897   | 16.768  | 19.951  | 14.921  | 12.912  | 17.270   | 10.179   | 14.915  |
|    | HEM881000858 | 25.634   | 16.531  | 8.162   | 8.209   | 14.482  | 12.749   | 92.823   | 10.102  |
|    | HEM881000867 | 106.946  | 56.331  | 264.748 | 50.278  | 36.949  | 41.202   | 26.795   | 29.760  |
|    | HEM881000870 | 68.550   | 62.423  | 192.351 | 52.406  | 39.303  | 55.641   | 23.738   | 27.427  |
|    | HEM881000876 | 21.813   | 12.044  | 24.968  | 11.314  | 7.689   | 10.690   | 11.143   | 26.241  |
|    | HEM881000881 | 30.089   | 16.478  | 28.345  | 14.926  | 18.419  | 17.763   | 18.901   | 20.494  |
| 45 | HEM881000883 | 11.669   | 10.263  | 26.185  | 6.975   | 2.780   | 8.223    | 2.906    | 3.540   |
|    | HEM881000887 | 42.638   | 32.274  | 66.780  | 22.979  | 31.512  | 42.842   | 20.622   | 22.566  |
|    | HEM881000888 | 20.318   | 8.193   | 11.483  | 5.178   | 4.073   | 8.708    | 6.801    | 4.342   |
|    | HEM881000890 | 40.795   | 42.287  | 112.076 | 25.031  | 11.171  | 23.116   | 15.491   | 16.447  |
|    | HEM881000893 | 38.227   | 10.603  | 88.306  | 24.535  | 14.440  | 12.863   | 9.734    | 17.727  |
|    | HEM881000900 | 23.814   | 8.709   | 17.013  | 9.267   | 10.928  | 12.199   | 14.105   | 11.108  |
| 50 | HEM881000905 | 63.589   | 43.501  | 37.125  | 41.367  | 26.379  | 29.649   | 38.699   | 31.891  |
|    | HEM881000908 | 42.944   | 54.674  | 120.821 | 34.982  | 28.838  | 28.194   | 15.897   | 26.230  |
|    | HEM881000910 | 72.960   | 51.795  | 161.850 | 41.050  | 36.594  | 37.378   | 13.612   | 23.263  |
|    | HEM881000913 | 33.820   | 35.219  | 96.448  | 24.688  | 12.371  | 26.067   | 14.715   | 19.268  |
|    | HEM881000915 | 1910.513 | 222.511 | 693.345 | 124.825 | 532.993 | 1548.228 | 1159.943 | 223.176 |
|    | HEM881000917 | 99.638   | 64.212  | 310.142 | 53.316  | 39.091  | 34.989   | 22.324   | 40.667  |
| 55 | HEM881000927 | 80.569   | 11.252  | 19.448  | 8.653   | 21.944  | 24.546   | 17.769   | 17.391  |
|    | HEM881000932 | 33.128   | 33.556  | 95.029  | 29.041  | 17.945  | 21.758   | 22.973   | 31.034  |



Table 43

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEM881000933 | 883.639 | 393.035 | 605.052 | 289.543 | 312.660 | 538.431 | 353.155 | 291.706 |
|    | HEM881000936 | 23.212  | 17.243  | 46.380  | 14.205  | 25.527  | 13.908  | 8.530   | 11.716  |
| 5  | HEM881000939 | 105.016 | 36.905  | 52.525  | 19.304  | 30.111  | 35.223  | 41.856  | 37.146  |
|    | HEM881000941 | 6.540   | 27.555  | 15.872  | 4.660   | 6.130   | 17.648  | 83.246  | 9.541   |
|    | HEM881000947 | 36.384  | 18.020  | 47.143  | 21.361  | 9.565   | 34.299  | 13.482  | 13.269  |
|    | HEM881000954 | 16.970  | 17.878  | 19.810  | 11.407  | 6.851   | 17.302  | 10.023  | 8.877   |
|    | HEM881000959 | 22.223  | 21.226  | 78.296  | 22.443  | 5.599   | 10.268  | 10.673  | 12.183  |
| 10 | HEM881000973 | 11.584  | 10.364  | 21.189  | 8.579   | 7.102   | 23.845  | 5.510   | 9.891   |
|    | HEM881000975 | 99.598  | 37.022  | 69.027  | 23.084  | 27.137  | 40.162  | 56.997  | 30.316  |
|    | HEM881000981 | 10.199  | 12.524  | 23.602  | 20.141  | 5.813   | 6.152   | 13.771  | 4.102   |
|    | HEM881000985 | 13.065  | 8.026   | 7.574   | 4.776   | 6.642   | 2.985   | 6.049   | 3.612   |
|    | HEM881000991 | 67.124  | 17.092  | 28.053  | 8.864   | 8.560   | 28.394  | 25.072  | 10.907  |
|    | HEM881000996 | 170.256 | 127.636 | 352.650 | 90.350  | 64.926  | 71.240  | 60.014  | 102.622 |
|    | HEM881001000 | 48.257  | 19.380  | 16.573  | 15.228  | 10.611  | 14.541  | 7.698   | 9.642   |
| 15 | HEM881001004 | 0.797   | 1.839   | 0.439   | 0.000   | 0.000   | 0.318   | 0.000   | 0.000   |
|    | HEM881001008 | 17.533  | 13.975  | 16.434  | 11.194  | 6.400   | 12.238  | 6.478   | 9.235   |
|    | HEM881001011 | 39.743  | 19.337  | 28.396  | 15.752  | 15.302  | 17.720  | 15.586  | 16.702  |
|    | HEM881001014 | 121.726 | 46.352  | 244.715 | 50.619  | 33.004  | 55.708  | 30.100  | 34.469  |
|    | HEM881001020 | 86.065  | 68.022  | 243.352 | 67.763  | 53.522  | 50.406  | 30.247  | 49.844  |
| 20 | HEM881001024 | 66.546  | 59.010  | 205.347 | 41.480  | 31.865  | 35.052  | 21.045  | 39.489  |
|    | HEM881001026 | 36.265  | 27.027  | 76.443  | 19.990  | 25.484  | 27.657  | 12.014  | 23.129  |
|    | HEM881001037 | 64.392  | 37.810  | 120.090 | 20.652  | 22.459  | 27.294  | 18.918  | 28.917  |
|    | HEM881001042 | 58.936  | 20.428  | 42.468  | 17.255  | 15.600  | 32.463  | 20.274  | 18.506  |
|    | HEM881001046 | 76.790  | 22.021  | 40.791  | 13.932  | 17.825  | 47.853  | 26.672  | 30.056  |
|    | HEM881001047 | 76.665  | 39.237  | 208.757 | 53.469  | 44.539  | 37.624  | 16.049  | 20.262  |
|    | HEM881001048 | 133.028 | 58.175  | 140.515 | 48.390  | 34.614  | 42.111  | 29.526  | 34.858  |
| 25 | HEM881001051 | 22.699  | 8.465   | 13.142  | 9.942   | 10.065  | 9.946   | 5.881   | 8.790   |
|    | HEM881001056 | 40.040  | 16.494  | 45.000  | 22.674  | 18.685  | 21.131  | 18.431  | 12.498  |
|    | HEM881001058 | 88.873  | 59.116  | 223.822 | 45.122  | 34.696  | 29.783  | 21.562  | 25.222  |
|    | HEM881001060 | 35.486  | 18.631  | 33.852  | 60.851  | 26.807  | 13.499  | 12.993  | 19.391  |
|    | HEM881001063 | 53.418  | 36.359  | 125.166 | 33.156  | 24.220  | 19.182  | 16.188  | 14.597  |
|    | HEM881001068 | 79.181  | 46.879  | 78.756  | 35.034  | 26.835  | 79.006  | 63.198  | 43.296  |
| 30 | HEM881001082 | 66.296  | 58.491  | 173.393 | 49.675  | 25.253  | 33.015  | 14.189  | 22.904  |
|    | HEM881001095 | 64.435  | 31.409  | 20.825  | 17.116  | 14.939  | 41.581  | 21.497  | 13.792  |
|    | HEM881001096 | 43.372  | 28.562  | 94.366  | 32.120  | 13.089  | 21.236  | 15.814  | 22.034  |
|    | HEM881001101 | 79.652  | 21.131  | 40.775  | 18.757  | 35.350  | 46.263  | 18.855  | 13.874  |
|    | HEM881001102 | 51.740  | 27.685  | 86.794  | 21.160  | 12.958  | 16.450  | 7.235   | 8.605   |
|    | HEM881001104 | 61.846  | 33.489  | 28.997  | 14.789  | 10.623  | 20.859  | 15.993  | 10.658  |
| 35 | HEM881001105 | 69.199  | 32.868  | 132.855 | 27.292  | 32.605  | 49.984  | 20.779  | 23.761  |
|    | HEM881001112 | 161.356 | 78.361  | 73.588  | 64.617  | 86.150  | 93.363  | 87.696  | 95.854  |
|    | HEM881001113 | 114.744 | 130.208 | 298.139 | 107.218 | 73.757  | 61.718  | 32.824  | 66.952  |
|    | HEM881001114 | 105.358 | 95.960  | 365.719 | 66.457  | 62.314  | 35.251  | 34.480  | 51.970  |
|    | HEM881001115 | 67.274  | 16.815  | 13.190  | 26.838  | 17.638  | 29.948  | 23.803  | 34.239  |
|    | HEM881001117 | 2.434   | 10.619  | 14.951  | 4.152   | 4.937   | 2.694   | 2.729   | 18.952  |
| 40 | HEM881001119 | 18.198  | 17.501  | 58.077  | 15.560  | 5.202   | 13.437  | 5.261   | 9.614   |
|    | HEM881001126 | 306.301 | 111.345 | 266.365 | 81.302  | 76.905  | 130.782 | 58.863  | 61.487  |
|    | HEM881001133 | 39.673  | 36.703  | 178.312 | 45.328  | 36.363  | 38.712  | 14.400  | 26.997  |
|    | HEM881001137 | 53.424  | 19.209  | 46.849  | 14.453  | 13.705  | 30.395  | 18.865  | 15.761  |
|    | HEM881001142 | 105.888 | 131.411 | 405.403 | 98.008  | 104.700 | 62.754  | 32.598  | 75.485  |
|    | HEM881001145 | 114.864 | 106.329 | 348.161 | 78.364  | 57.587  | 54.983  | 24.738  | 51.568  |
| 45 | HEM881001151 | 149.618 | 23.632  | 66.607  | 14.582  | 34.238  | 68.060  | 46.084  | 19.806  |
|    | HEM881001153 | 92.263  | 53.444  | 153.351 | 44.131  | 37.191  | 34.991  | 21.708  | 32.599  |
|    | HEM881001158 | 64.416  | 30.844  | 50.578  | 22.880  | 32.523  | 47.046  | 24.553  | 39.658  |
|    | HEM881001169 | 96.424  | 70.158  | 253.814 | 76.490  | 44.058  | 37.113  | 24.102  | 38.757  |
|    | HEM881001170 | 34.989  | 7.730   | 32.617  | 5.324   | 4.217   | 11.418  | 7.623   | 5.208   |
|    | HEM881001175 | 46.512  | 27.401  | 45.252  | 21.001  | 15.416  | 20.636  | 17.361  | 36.021  |
| 50 | HEM881001177 | 126.389 | 86.212  | 396.633 | 84.357  | 48.470  | 40.910  | 34.438  | 42.680  |
|    | HEM881001182 | 70.825  | 30.508  | 45.077  | 19.262  | 28.316  | 32.507  | 25.771  | 26.488  |
|    | HEM881001192 | 30.059  | 21.703  | 61.610  | 20.151  | 5.688   | 22.456  | 24.299  | 31.214  |
|    | HEM881001199 | 1.469   | 0.000   | 0.000   | 4.430   | 0.797   | 2.148   | 1.260   | 1.223   |
|    | HEM881001200 | 2.266   | 1.426   | 2.071   | 5.734   | 0.000   | 2.413   | 1.567   | 2.969   |
|    | HEM881001208 | 111.969 | 37.738  | 122.154 | 28.426  | 28.653  | 55.253  | 32.443  | 21.624  |
|    | HEM881001209 | 103.602 | 77.445  | 233.649 | 60.849  | 25.456  | 40.993  | 26.273  | 33.636  |
| 55 | HEM881001210 | 14.499  | 40.527  | 32.902  | 6.231   | 10.125  | 16.413  | 17.251  | 28.930  |

Table 44

|    |              |         |         |         |        |        |         |         |        |
|----|--------------|---------|---------|---------|--------|--------|---------|---------|--------|
|    | HEM881001215 | 219.922 | 83.033  | 126.326 | 63.007 | 71.733 | 115.441 | 61.961  | 72.230 |
|    | HEM881001217 | 63.633  | 22.116  | 41.047  | 17.479 | 20.160 | 53.164  | 31.645  | 18.739 |
| 5  | HEM881001218 | 98.226  | 47.137  | 142.266 | 53.412 | 29.467 | 23.819  | 20.495  | 24.079 |
|    | HEM881001221 | 0.524   | 1.310   | 12.795  | 0.988  | 0.992  | 0.867   | 0.000   | 1.767  |
|    | HEM881001224 | 52.109  | 37.281  | 86.318  | 28.364 | 24.177 | 19.072  | 16.478  | 20.321 |
|    | HEM881001230 | 38.785  | 17.158  | 30.714  | 15.256 | 12.698 | 31.469  | 27.596  | 17.436 |
|    | HEM881001234 | 335.966 | 64.817  | 131.669 | 43.601 | 69.385 | 167.134 | 101.415 | 57.258 |
| 10 | HEM881001235 | 152.870 | 67.952  | 84.726  | 40.262 | 26.665 | 52.686  | 38.623  | 49.693 |
|    | HEM881001237 | 16.971  | 23.623  | 33.663  | 30.744 | 21.161 | 18.495  | 18.264  | 25.643 |
|    | HEM881001242 | 26.787  | 15.776  | 22.922  | 4.200  | 5.187  | 11.277  | 10.621  | 7.589  |
|    | HEM881001244 | 280.439 | 9.589   | 9.743   | 8.128  | 2.116  | 4.366   | 2.735   | 2.871  |
|    | HEM881001249 | 51.892  | 27.766  | 106.010 | 25.983 | 19.890 | 21.254  | 16.839  | 21.542 |
|    | HEM881001253 | 50.869  | 33.773  | 58.857  | 31.656 | 8.253  | 38.144  | 20.639  | 25.942 |
|    | HEM881001254 | 28.109  | 8.716   | 61.080  | 12.779 | 6.376  | 18.461  | 22.558  | 8.559  |
| 15 | HEM881001266 | 2.010   | 9.088   | 3.704   | 1.682  | 16.420 | 18.653  | 1.717   | 1.611  |
|    | HEM881001267 | 131.334 | 93.697  | 391.730 | 88.886 | 45.610 | 62.418  | 33.457  | 63.350 |
|    | HEM881001271 | 31.480  | 28.408  | 63.773  | 19.821 | 15.244 | 12.530  | 8.683   | 10.739 |
|    | HEM881001282 | 41.166  | 11.440  | 25.546  | 10.847 | 7.531  | 21.762  | 15.737  | 10.592 |
|    | HEM881001287 | 195.274 | 200.678 | 131.870 | 63.454 | 15.491 | 70.758  | 43.360  | 52.931 |
|    | HEM881001288 | 40.232  | 10.227  | 25.481  | 9.789  | 5.520  | 21.519  | 16.538  | 9.861  |
| 20 | HEM881001289 | 84.233  | 74.730  | 246.417 | 61.615 | 31.689 | 36.447  | 24.521  | 38.077 |
|    | HEM881001290 | 57.742  | 13.181  | 11.174  | 33.921 | 23.320 | 24.860  | 82.615  | 15.369 |
|    | HEM881001294 | 80.761  | 23.745  | 72.937  | 16.689 | 20.147 | 45.268  | 37.686  | 22.951 |
|    | HEM881001299 | 58.616  | 17.094  | 44.424  | 13.532 | 14.650 | 31.325  | 32.822  | 12.329 |
|    | HEM881001302 | 87.107  | 24.979  | 56.357  | 23.389 | 20.784 | 37.921  | 28.849  | 21.981 |
|    | HEM881001304 | 12.134  | 0.119   | 5.246   | 19.403 | 1.810  | 3.978   | 2.153   | 1.580  |
| 25 | HEM881001314 | 6.410   | 5.111   | 25.042  | 5.961  | 3.244  | 7.037   | 2.954   | 2.258  |
|    | HEM881001315 | 3.706   | 8.398   | 10.733  | 3.067  | 1.405  | 3.652   | 1.659   | 1.943  |
|    | HEM881001317 | 39.137  | 34.918  | 87.084  | 32.290 | 25.473 | 21.551  | 14.009  | 18.118 |
|    | HEM881001326 | 13.902  | 5.726   | 7.704   | 2.886  | 2.324  | 1.546   | 2.008   | 5.612  |
|    | HEM881001331 | 34.871  | 17.866  | 37.859  | 11.626 | 6.188  | 23.138  | 24.975  | 17.786 |
|    | HEM881001335 | 22.550  | 20.911  | 19.341  | 12.458 | 15.964 | 18.477  | 15.941  | 5.614  |
| 30 | HEM881001337 | 61.645  | 43.894  | 187.675 | 45.250 | 52.185 | 20.178  | 25.750  | 29.233 |
|    | HEM881001339 | 20.634  | 25.030  | 21.230  | 11.541 | 12.874 | 18.490  | 12.601  | 13.466 |
|    | HEM881001344 | 31.209  | 8.322   | 15.710  | 5.412  | 6.749  | 16.517  | 16.482  | 9.869  |
|    | HEM881001346 | 44.149  | 21.512  | 38.191  | 15.415 | 9.432  | 26.936  | 17.706  | 15.965 |
|    | HEM881001348 | 66.624  | 40.319  | 173.356 | 39.887 | 26.835 | 31.783  | 20.641  | 26.670 |
|    | HEM881001350 | 103.603 | 17.400  | 35.832  | 13.555 | 13.837 | 54.503  | 34.694  | 19.925 |
| 35 | HEM881001356 | 12.440  | 11.385  | 25.095  | 8.592  | 6.787  | 7.806   | 8.759   | 8.923  |
|    | HEM881001364 | 28.525  | 14.483  | 31.452  | 11.829 | 13.494 | 12.620  | 13.025  | 10.117 |
|    | HEM881001366 | 57.883  | 53.690  | 210.263 | 52.112 | 27.208 | 41.191  | 29.156  | 32.064 |
|    | HEM881001367 | 140.660 | 59.744  | 283.101 | 54.260 | 46.338 | 67.368  | 43.944  | 48.485 |
|    | HEM881001369 | 17.341  | 20.708  | 71.044  | 14.855 | 7.629  | 12.537  | 7.158   | 14.407 |
|    | HEM881001380 | 50.204  | 67.647  | 124.463 | 41.290 | 43.730 | 41.591  | 29.026  | 63.358 |
| 40 | HEM881001381 | 19.588  | 19.545  | 34.218  | 14.113 | 18.710 | 9.428   | 10.202  | 13.801 |
|    | HEM881001384 | 17.779  | 11.154  | 26.926  | 11.606 | 19.030 | 10.038  | 7.367   | 14.535 |
|    | HEM881001387 | 20.705  | 16.837  | 19.148  | 9.955  | 8.901  | 15.994  | 7.831   | 13.345 |
|    | HEM881001394 | 21.419  | 19.091  | 32.720  | 17.551 | 19.172 | 11.590  | 12.282  | 11.322 |
|    | HEM881001407 | 39.158  | 17.718  | 75.721  | 24.299 | 17.481 | 17.410  | 20.342  | 15.525 |
|    | HEM881001410 | 18.880  | 3.346   | 6.042   | 2.907  | 2.655  | 0.000   | 2.839   | 2.094  |
|    | HEM881001413 | 32.291  | 25.769  | 80.279  | 17.033 | 21.102 | 11.132  | 12.610  | 24.207 |
| 45 | HEM881001419 | 36.323  | 42.415  | 185.239 | 24.790 | 21.849 | 17.972  | 13.895  | 31.342 |
|    | HEM881001421 | 29.464  | 57.495  | 109.370 | 12.065 | 15.685 | 64.181  | 165.647 | 23.322 |
|    | HEM881001424 | 9.663   | 7.148   | 10.294  | 6.073  | 6.773  | 7.183   | 5.215   | 8.524  |
|    | HEM881001426 | 36.471  | 25.897  | 86.872  | 20.138 | 17.823 | 19.534  | 15.347  | 23.782 |
|    | HEM881001429 | 60.351  | 47.669  | 39.928  | 29.802 | 21.695 | 39.456  | 39.474  | 41.210 |
|    | HEM881001436 | 168.445 | 86.814  | 350.902 | 88.825 | 54.546 | 86.724  | 48.813  | 58.527 |
| 50 | HEM881001443 | 20.733  | 11.137  | 12.445  | 8.769  | 16.707 | 14.531  | 9.581   | 12.477 |
|    | HEM881001449 | 70.239  | 34.064  | 146.511 | 28.311 | 23.391 | 19.979  | 16.080  | 22.377 |
|    | HEM881001454 | 60.851  | 40.766  | 133.878 | 33.168 | 28.709 | 36.541  | 29.720  | 26.623 |
|    | HEM881001458 | 77.938  | 28.808  | 33.472  | 15.970 | 29.260 | 40.965  | 25.268  | 28.079 |
|    | HEM881001461 | 44.192  | 44.580  | 179.531 | 65.974 | 16.217 | 45.935  | 14.669  | 27.974 |
|    | HEM881001463 | 57.949  | 102.937 | 230.980 | 60.751 | 41.957 | 48.857  | 25.233  | 38.517 |
| 55 | HEM881001464 | 18.058  | 9.999   | 14.908  | 10.039 | 7.528  | 8.680   | 2.638   | 2.964  |

Table 45

|    |              |         |         |         |         |         |         |          |         |
|----|--------------|---------|---------|---------|---------|---------|---------|----------|---------|
|    | HEM881001466 | 31.340  | 22.324  | 20.480  | 15.496  | 3.611   | 15.533  | 10.020   | 13.761  |
|    | HEM881001482 | 12.741  | 4.057   | 9.987   | 4.175   | 4.887   | 24.039  | 4.114    | 4.470   |
| 5  | HEM881001500 | 26.823  | 21.417  | 65.107  | 17.492  | 9.196   | 12.958  | 6.167    | 14.603  |
|    | HEM881001505 | 116.783 | 105.297 | 302.199 | 104.682 | 36.419  | 54.346  | 38.027   | 46.591  |
|    | HEM881001521 | 55.379  | 38.602  | 133.188 | 25.792  | 20.204  | 23.504  | 18.628   | 22.786  |
|    | HEM881001527 | 331.186 | 160.160 | 252.225 | 131.308 | 116.694 | 179.333 | 72.732   | 79.869  |
|    | HEM881001530 | 24.722  | 25.693  | 57.090  | 19.457  | 7.662   | 20.875  | 31.031   | 23.503  |
|    | HEM881001531 | 43.913  | 51.679  | 130.225 | 34.674  | 21.061  | 27.704  | 18.966   | 32.578  |
| 10 | HEM881001532 | 6.957   | 3.901   | 34.322  | 7.593   | 1.875   | 8.172   | 300.808  | 7.501   |
|    | HEM881001535 | 71.654  | 59.202  | 131.794 | 46.369  | 28.936  | 34.644  | 21.690   | 23.017  |
|    | HEM881001536 | 73.109  | 48.204  | 106.813 | 35.175  | 16.411  | 22.356  | 19.126   | 20.785  |
|    | HEM881001537 | 40.809  | 54.756  | 140.043 | 43.830  | 21.583  | 31.273  | 8.692    | 29.500  |
|    | HEM881001542 | 79.436  | 33.152  | 94.294  | 34.360  | 26.100  | 44.300  | 19.679   | 22.657  |
|    | HEM881001543 | 55.819  | 14.588  | 8.417   | 4.239   | 7.702   | 20.740  | 11.834   | 18.032  |
| 15 | HEM881001547 | 10.746  | 8.433   | 12.415  | 9.202   | 10.101  | 15.047  | 10.631   | 8.198   |
|    | HEM881001548 | 163.125 | 42.223  | 39.134  | 33.781  | 26.421  | 115.789 | 76.174   | 67.211  |
|    | HEM881001551 | 32.248  | 10.176  | 8.937   | 9.728   | 20.037  | 69.247  | 7078.074 | 11.439  |
|    | HEM881001555 | 62.998  | 58.959  | 166.842 | 57.865  | 40.731  | 30.981  | 17.189   | 40.721  |
|    | HEM881001562 | 67.088  | 35.544  | 83.929  | 24.475  | 18.852  | 28.472  | 27.682   | 23.295  |
| 20 | HEM881001564 | 139.467 | 320.422 | 580.390 | 304.052 | 124.857 | 300.720 | 202.502  | 439.361 |
|    | HEM881001565 | 56.749  | 43.545  | 123.727 | 39.891  | 29.530  | 30.029  | 17.527   | 28.501  |
|    | HEM881001569 | 34.482  | 26.904  | 100.487 | 28.883  | 16.462  | 19.020  | 8.403    | 16.605  |
|    | HEM881001573 | 48.940  | 40.308  | 65.598  | 41.979  | 32.247  | 35.238  | 25.583   | 36.979  |
|    | HEM881001585 | 153.364 | 57.831  | 211.685 | 61.076  | 40.832  | 38.446  | 18.915   | 42.636  |
|    | HEM881001586 | 44.946  | 40.343  | 113.224 | 34.426  | 18.386  | 24.673  | 16.535   | 26.124  |
|    | HEM881001588 | 157.947 | 130.811 | 402.650 | 111.293 | 69.831  | 80.240  | 46.050   | 75.499  |
| 25 | HEM881001595 | 12.602  | 11.160  | 44.464  | 13.949  | 6.811   | 11.538  | 4.359    | 11.569  |
|    | HEM881001596 | 53.986  | 20.798  | 39.629  | 25.473  | 20.578  | 32.621  | 23.309   | 36.564  |
|    | HEM881001599 | 29.275  | 7.352   | 13.267  | 11.568  | 5.279   | 15.756  | 10.260   | 5.135   |
|    | HEM881001603 | 3.581   | 2.642   | 7.782   | 4.279   | 3.051   | 0.341   | 1.424    | 3.160   |
|    | HEM881001606 | 6.897   | 7.220   | 7.226   | 7.657   | 3.104   | 5.383   | 5.658    | 4.364   |
| 30 | HEM881001612 | 101.576 | 58.128  | 240.469 | 58.770  | 36.287  | 42.917  | 27.221   | 40.063  |
|    | HEM881001618 | 52.604  | 38.648  | 141.745 | 37.723  | 24.274  | 24.922  | 17.197   | 24.223  |
|    | HEM881001619 | 59.431  | 78.268  | 138.545 | 63.285  | 52.275  | 37.035  | 22.185   | 38.081  |
|    | HEM881001623 | 33.128  | 8.489   | 11.122  | 6.318   | 8.326   | 16.007  | 3.331    | 7.918   |
|    | HEM881001625 | 10.068  | 16.076  | 8.496   | 7.577   | 2.293   | 8.389   | 1.716    | 4.647   |
|    | HEM881001630 | 7.144   | 5.464   | 31.186  | 8.383   | 3.256   | 11.196  | 3.053    | 5.942   |
| 35 | HEM881001635 | 18.151  | 8.186   | 33.138  | 13.501  | 9.143   | 9.688   | 44.037   | 8.859   |
|    | HEM881001637 | 40.224  | 35.174  | 58.964  | 24.082  | 26.640  | 26.340  | 20.792   | 26.243  |
|    | HEM881001641 | 21.655  | 10.768  | 33.553  | 9.122   | 5.845   | 7.210   | 5.796    | 8.300   |
|    | HEM881001653 | 76.468  | 45.984  | 138.114 | 33.606  | 30.023  | 33.136  | 16.720   | 25.949  |
|    | HEM881001665 | 3.000   | 0.352   | 5.654   | 0.275   | 0.718   | 0.106   | 0.899    | 0.407   |
|    | HEM881001666 | 48.027  | 23.276  | 59.669  | 22.201  | 9.196   | 20.512  | 10.659   | 15.687  |
|    | HEM881001667 | 2.570   | 7.909   | 3.107   | 5.847   | 8.690   | 2.748   | 1.999    | 8.738   |
| 40 | HEM881001668 | 2.545   | 8.886   | 13.392  | 8.498   | 18.131  | 3.355   | 1.531    | 3.932   |
|    | HEM881001669 | 5.751   | 5.364   | 10.395  | 3.219   | 4.970   | 5.110   | 4.341    | 2.139   |
|    | HEM881001670 | 17.795  | 10.903  | 34.891  | 20.715  | 11.725  | 22.401  | 12.909   | 20.514  |
|    | HEM881001673 | 69.924  | 44.194  | 58.806  | 53.036  | 21.640  | 40.433  | 25.038   | 49.339  |
|    | HEM881001675 | 58.961  | 13.650  | 21.648  | 10.914  | 9.356   | 22.270  | 15.894   | 11.977  |
|    | HEM881001679 | 51.245  | 9.166   | 29.461  | 6.718   | 11.101  | 24.642  | 13.266   | 4.383   |
| 45 | HEM881001684 | 27.854  | 11.218  | 30.139  | 14.666  | 11.546  | 25.422  | 15.072   | 13.683  |
|    | HEM881001685 | 9.626   | 8.721   | 34.446  | 7.134   | 4.659   | 1.316   | 3.180    | 6.172   |
|    | HEM881001695 | 2.706   | 4.723   | 4.741   | 1.162   | 8.059   | 1.109   | 1.036    | 1.119   |
|    | HEM881001703 | 116.774 | 37.756  | 115.693 | 36.901  | 34.790  | 69.383  | 44.901   | 43.576  |
|    | HEM881001704 | 67.385  | 52.606  | 211.228 | 52.452  | 40.406  | 43.432  | 33.952   | 54.662  |
|    | HEM881001706 | 122.282 | 70.476  | 227.746 | 77.627  | 63.608  | 53.010  | 38.740   | 56.789  |
| 50 | HEM881001707 | 111.416 | 69.815  | 154.286 | 51.656  | 60.773  | 50.260  | 33.306   | 43.746  |
|    | HEM881001717 | 14.112  | 16.260  | 60.454  | 10.609  | 5.688   | 9.921   | 4.816    | 8.073   |
|    | HEM881001731 | 29.550  | 36.222  | 21.992  | 33.872  | 22.551  | 35.654  | 37.976   | 32.089  |
|    | HEM881001734 | 75.818  | 39.477  | 107.419 | 26.507  | 15.856  | 20.715  | 17.010   | 17.320  |
|    | HEM881001735 | 63.245  | 22.136  | 169.823 | 34.289  | 26.478  | 18.371  | 17.292   | 27.924  |
|    | HEM881001736 | 20.722  | 18.061  | 27.944  | 17.598  | 12.534  | 9.551   | 10.504   | 13.178  |
|    | HEM881001747 | 21.158  | 15.281  | 18.501  | 9.967   | 9.806   | 11.088  | 17.268   | 12.572  |
| 55 | HEM881001749 | 89.421  | 90.342  | 429.206 | 126.585 | 53.728  | 56.733  | 28.560   | 64.467  |

Table 46

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEM881001753 | 85.135  | 63.020  | 101.881 | 44.766  | 60.100  | 46.138  | 48.988  | 44.990  |
|    | HEM881001756 | 86.556  | 37.048  | 83.531  | 33.276  | 42.763  | 54.273  | 32.005  | 30.821  |
| 5  | HEM881001757 | 1.981   | 3.522   | 5.232   | 3.590   | 1.394   | 7.486   | 3.256   | 3.014   |
|    | HEM881001760 | 13.573  | 14.554  | 27.053  | 7.204   | 5.280   | 8.129   | 5.242   | 4.088   |
|    | HEM881001762 | 26.210  | 15.945  | 24.826  | 8.467   | 6.461   | 26.934  | 6.893   | 9.656   |
|    | HEM881001780 | 18.738  | 33.363  | 27.562  | 17.311  | 13.893  | 4.277   | 14.584  | 19.429  |
|    | HEM881001785 | 3.266   | 2.954   | 7.974   | 3.522   | 3.900   | 7.429   | 3.964   | 4.008   |
|    | HEM881001788 | 77.710  | 51.716  | 232.298 | 72.096  | 40.555  | 41.418  | 29.586  | 33.423  |
| 10 | HEM881001793 | 221.348 | 29.215  | 45.528  | 20.500  | 22.918  | 33.927  | 36.095  | 25.245  |
|    | HEM881001797 | 4.049   | 9.015   | 10.442  | 4.015   | 2.532   | 8.773   | 2.904   | 6.333   |
|    | HEM881001802 | 430.563 | 24.213  | 34.832  | 14.183  | 17.392  | 26.448  | 23.001  | 29.744  |
|    | HEM881001812 | 91.804  | 71.389  | 218.174 | 56.457  | 56.645  | 54.459  | 15.772  | 55.255  |
|    | HEM881001815 | 506.853 | 426.652 | 275.995 | 120.005 | 129.468 | 289.852 | 148.011 | 122.368 |
|    | HEM881001816 | 90.696  | 55.478  | 178.334 | 52.637  | 25.170  | 45.331  | 35.194  | 47.899  |
| 15 | HEM881001831 | 22.874  | 14.551  | 46.474  | 16.825  | 9.329   | 19.975  | 9.745   | 18.634  |
|    | HEM881001834 | 456.615 | 299.793 | 406.927 | 241.146 | 284.283 | 499.103 | 267.485 | 306.611 |
|    | HEM881001836 | 138.292 | 91.469  | 348.309 | 101.544 | 73.058  | 67.103  | 40.539  | 76.261  |
|    | HEM881001839 | 9.720   | 6.600   | 7.318   | 0.000   | 2.606   | 4.296   | 2.217   | 2.738   |
|    | HEM881001841 | 345.524 | 134.230 | 67.049  | 25.938  | 60.560  | 21.530  | 21.177  | 18.486  |
|    | HEM881001844 | 61.041  | 25.820  | 34.819  | 14.237  | 14.648  | 34.333  | 20.655  | 31.102  |
| 20 | HEM881001847 | 126.241 | 111.341 | 239.722 | 147.873 | 65.849  | 86.164  | 47.980  | 108.378 |
|    | HEM881001848 | 40.802  | 39.856  | 24.837  | 12.646  | 9.727   | 18.893  | 18.093  | 17.754  |
|    | HEM881001850 | 171.151 | 101.141 | 118.680 | 33.622  | 64.050  | 118.364 | 50.599  | 75.857  |
|    | HEM881001859 | 133.676 | 77.853  | 231.163 | 65.024  | 41.660  | 123.173 | 103.961 | 48.695  |
|    | HEM881001863 | 115.353 | 92.421  | 255.141 | 83.601  | 85.833  | 53.693  | 30.832  | 49.888  |
|    | HEM881001867 | 15.427  | 15.822  | 8.336   | 10.061  | 4.673   | 8.415   | 6.299   | 9.816   |
| 25 | HEM881001868 | 24.470  | 17.457  | 24.238  | 7.996   | 8.810   | 8.133   | 10.520  | 11.923  |
|    | HEM881001869 | 82.894  | 76.711  | 234.322 | 61.007  | 44.801  | 45.547  | 29.853  | 39.008  |
|    | HEM881001872 | 15.921  | 7.288   | 5.998   | 10.151  | 2.561   | 5.674   | 9.542   | 5.964   |
|    | HEM881001874 | 36.336  | 11.065  | 22.113  | 15.221  | 9.515   | 14.138  | 6.058   | 5.891   |
|    | HEM881001875 | 7.615   | 19.234  | 13.755  | 26.314  | 11.646  | 3.662   | 5.863   | 7.228   |
|    | HEM881001880 | 107.638 | 82.806  | 115.014 | 59.163  | 39.712  | 47.440  | 27.454  | 37.214  |
| 30 | HEM881001899 | 15.785  | 11.630  | 15.181  | 7.571   | 2.259   | 12.203  | 4.190   | 3.366   |
|    | HEM881001903 | 59.215  | 24.149  | 27.564  | 15.205  | 8.601   | 28.805  | 15.592  | 15.765  |
|    | HEM881001905 | 29.932  | 24.402  | 20.256  | 15.117  | 8.559   | 17.138  | 12.021  | 12.009  |
|    | HEM881001906 | 15.456  | 13.077  | 51.260  | 10.147  | 16.547  | 10.906  | 7.943   | 9.129   |
|    | HEM881001908 | 35.095  | 32.316  | 100.465 | 26.514  | 24.742  | 20.649  | 8.759   | 14.223  |
|    | HEM881001910 | 67.419  | 35.922  | 139.126 | 58.266  | 43.100  | 26.178  | 19.330  | 29.710  |
| 35 | HEM881001911 | 50.456  | 46.682  | 196.311 | 58.337  | 31.782  | 35.278  | 19.934  | 32.009  |
|    | HEM881001915 | 40.796  | 27.017  | 19.351  | 20.885  | 15.345  | 12.662  | 9.798   | 36.052  |
|    | HEM881001921 | 95.398  | 115.190 | 314.157 | 85.049  | 59.940  | 59.397  | 36.034  | 60.585  |
|    | HEM881001922 | 54.587  | 37.299  | 107.814 | 29.796  | 15.712  | 23.741  | 15.662  | 16.568  |
|    | HEM881001925 | 35.478  | 39.156  | 106.631 | 23.241  | 15.055  | 16.405  | 13.936  | 15.471  |
|    | HEM881001930 | 9.272   | 7.467   | 11.545  | 7.045   | 3.402   | 5.636   | 2.969   | 5.808   |
| 40 | HEM881001944 | 122.259 | 83.163  | 268.572 | 86.582  | 66.995  | 51.236  | 27.262  | 45.542  |
|    | HEM881001945 | 55.555  | 20.668  | 28.702  | 7.169   | 21.076  | 24.208  | 18.042  | 10.472  |
|    | HEM881001947 | 47.254  | 12.987  | 21.887  | 16.223  | 6.133   | 25.673  | 16.697  | 13.440  |
|    | HEM881001950 | 99.345  | 31.711  | 42.202  | 32.724  | 17.168  | 68.211  | 28.763  | 30.429  |
|    | HEM881001952 | 67.117  | 40.169  | 164.691 | 39.168  | 16.287  | 31.103  | 11.276  | 24.511  |
|    | HEM881001953 | 56.049  | 47.572  | 147.635 | 34.659  | 22.662  | 21.660  | 13.445  | 22.280  |
| 45 | HEM881001957 | 43.669  | 20.350  | 106.261 | 26.369  | 16.837  | 16.589  | 5.199   | 12.837  |
|    | HEM881001959 | 26.731  | 45.573  | 72.402  | 48.003  | 21.477  | 24.564  | 17.194  | 36.361  |
|    | HEM881001962 | 59.585  | 38.413  | 125.747 | 48.471  | 52.786  | 46.598  | 20.834  | 29.320  |
|    | HEM881001967 | 156.252 | 96.306  | 460.639 | 121.361 | 89.090  | 70.066  | 46.606  | 68.839  |
|    | HEM881001973 | 62.418  | 55.111  | 203.353 | 61.777  | 40.564  | 39.531  | 24.193  | 43.482  |
|    | HEM881001978 | 205.611 | 67.998  | 184.804 | 55.506  | 42.195  | 56.711  | 62.043  | 55.171  |
| 50 | HEM881001983 | 115.219 | 97.908  | 189.950 | 79.417  | 69.496  | 62.957  | 41.995  | 65.291  |
|    | HEM881001987 | 23.094  | 30.009  | 63.743  | 16.838  | 10.970  | 10.414  | 5.543   | 10.645  |
|    | HEM881001988 | 26.549  | 17.876  | 71.399  | 12.651  | 11.631  | 11.873  | 6.563   | 10.248  |
|    | HEM881001990 | 61.049  | 28.808  | 125.791 | 31.477  | 30.752  | 26.525  | 9.894   | 24.366  |
|    | HEM881001996 | 40.435  | 12.303  | 17.096  | 14.159  | 3.837   | 18.573  | 11.696  | 13.433  |
|    | HEM881001997 | 91.453  | 62.313  | 247.838 | 64.724  | 40.131  | 29.522  | 27.492  | 42.942  |
|    | HEM881001999 | 28.583  | 9.839   | 33.748  | 34.520  | 11.455  | 23.048  | 14.798  | 25.158  |
| 55 | HEM881002002 | 19.354  | 10.115  | 14.415  | 9.527   | 16.781  | 12.044  | 7.088   | 14.724  |

Table 47

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEM881002005 | 127.202 | 87.407  | 314.165 | 82.406  | 66.505  | 55.577  | 40.792  | 64.185  |
|    | HEM881002009 | 0.000   | 1.364   | 22.770  | 0.807   | 4.369   | 1.295   | 0.000   | 0.000   |
| 5  | HEM881002013 | 28.258  | 13.676  | 16.813  | 10.399  | 10.765  | 17.046  | 7.782   | 9.691   |
|    | HEM881002015 | 105.576 | 48.524  | 66.937  | 36.377  | 38.220  | 74.637  | 28.221  | 34.621  |
|    | HEM881002024 | 216.724 | 27.841  | 16.159  | 12.961  | 10.268  | 16.725  | 13.378  | 30.580  |
|    | HEM881002035 | 46.139  | 20.267  | 93.090  | 25.830  | 19.155  | 14.290  | 9.089   | 10.861  |
|    | HEM881002039 | 56.819  | 33.510  | 91.779  | 23.686  | 12.816  | 13.451  | 13.710  | 16.666  |
|    | HEM881002041 | 64.639  | 34.426  | 51.061  | 22.611  | 27.241  | 31.364  | 25.209  | 28.240  |
| 10 | HEM881002042 | 108.989 | 70.262  | 244.087 | 61.596  | 54.097  | 58.195  | 45.407  | 53.478  |
|    | HEM881002043 | 45.022  | 36.752  | 179.777 | 48.242  | 21.779  | 25.603  | 30.919  | 28.446  |
|    | HEM881002044 | 13.181  | 2.012   | 5.797   | 1.053   | 1.982   | 1.313   | 3.432   | 2.045   |
|    | HEM881002045 | 289.530 | 197.322 | 441.790 | 143.182 | 150.349 | 206.083 | 108.290 | 118.515 |
|    | HEM881002049 | 35.193  | 24.481  | 83.015  | 26.999  | 19.710  | 27.535  | 16.278  | 24.921  |
|    | HEM881002050 | 37.095  | 16.954  | 49.110  | 12.868  | 13.580  | 16.690  | 9.422   | 14.540  |
| 15 | HEM881002051 | 36.389  | 19.655  | 68.218  | 18.665  | 8.800   | 22.352  | 16.403  | 17.616  |
|    | HEM881002068 | 75.935  | 30.174  | 53.312  | 27.588  | 23.758  | 28.553  | 40.522  | 36.664  |
|    | HEM881002069 | 213.038 | 176.212 | 471.114 | 127.141 | 113.252 | 145.813 | 82.555  | 84.929  |
|    | HEM881002075 | 42.631  | 31.316  | 161.071 | 28.782  | 21.239  | 25.996  | 13.087  | 18.589  |
|    | HEM881002079 | 16.958  | 10.592  | 15.974  | 7.658   | 4.913   | 11.054  | 12.406  | 9.170   |
|    | HEM881002080 | 43.775  | 32.579  | 72.576  | 24.001  | 9.827   | 28.608  | 17.214  | 17.433  |
| 20 | HEM881002082 | 26.775  | 8.257   | 21.193  | 4.448   | 6.280   | 19.090  | 464.903 | 8.346   |
|    | HEM881002084 | 17.127  | 6.840   | 43.925  | 4.043   | 9.757   | 26.316  | 9.627   | 6.512   |
|    | HEM881002088 | 90.318  | 38.977  | 65.816  | 40.755  | 47.974  | 81.367  | 57.452  | 75.281  |
|    | HEM881002092 | 192.949 | 59.522  | 268.965 | 49.978  | 47.797  | 60.595  | 48.524  | 38.080  |
|    | HEM881002094 | 127.875 | 84.707  | 379.671 | 89.066  | 80.779  | 70.636  | 38.807  | 57.037  |
|    | HEM881002103 | 29.830  | 9.307   | 18.867  | 12.419  | 117.011 | 11.825  | 10.555  | 6.133   |
| 25 | HEM881002109 | 28.380  | 23.579  | 104.568 | 24.307  | 17.018  | 17.089  | 11.301  | 21.844  |
|    | HEM881002115 | 71.073  | 86.440  | 117.523 | 95.976  | 28.307  | 85.908  | 60.445  | 114.378 |
|    | HEM881002120 | 16.393  | 10.090  | 4.147   | 2.085   | 3.568   | 9.594   | 4.954   | 4.539   |
|    | HEM881002121 | 12.050  | 2.757   | 6.522   | 1.146   | 2.007   | 0.000   | 1.999   | 1.549   |
|    | HEM881002134 | 784.781 | 365.377 | 605.805 | 262.168 | 223.204 | 719.592 | 534.370 | 450.949 |
|    | HEM881002136 | 109.220 | 32.405  | 75.010  | 27.402  | 26.278  | 36.231  | 38.283  | 23.593  |
| 30 | HEM881002138 | 17.812  | 14.057  | 17.210  | 7.413   | 9.287   | 10.613  | 20.319  | 9.644   |
|    | HEM881002139 | 51.267  | 37.549  | 168.617 | 27.467  | 17.855  | 27.091  | 16.428  | 23.177  |
|    | HEM881002141 | 82.369  | 29.424  | 54.387  | 14.566  | 15.214  | 39.768  | 33.139  | 22.856  |
|    | HEM881002142 | 70.553  | 42.309  | 156.252 | 36.636  | 14.797  | 26.769  | 15.277  | 22.894  |
|    | HEM881002145 | 40.661  | 16.263  | 15.725  | 8.229   | 13.984  | 21.757  | 14.873  | 15.525  |
|    | HEM881002152 | 46.728  | 36.893  | 105.608 | 65.422  | 40.064  | 25.225  | 29.211  | 42.935  |
|    | HEM881002162 | 40.153  | 34.008  | 96.274  | 29.709  | 19.847  | 47.860  | 22.055  | 40.550  |
| 35 | HEM881002173 | 53.191  | 41.151  | 147.055 | 26.912  | 34.538  | 16.431  | 19.449  | 25.327  |
|    | HEM881002189 | 73.400  | 88.057  | 211.287 | 73.810  | 54.029  | 46.682  | 45.749  | 55.885  |
|    | HEM881002190 | 33.242  | 51.561  | 233.972 | 49.809  | 19.665  | 27.376  | 13.129  | 61.389  |
|    | HEM881002193 | 69.174  | 22.324  | 33.672  | 10.803  | 18.423  | 27.938  | 24.748  | 16.109  |
|    | HEM881002217 | 50.175  | 37.602  | 98.092  | 38.769  | 24.723  | 33.043  | 18.735  | 39.436  |
|    | HEM881002218 | 596.902 | 272.867 | 712.867 | 191.461 | 186.314 | 373.711 | 195.571 | 197.556 |
| 40 | HEM881002228 | 88.583  | 45.763  | 205.932 | 47.852  | 46.693  | 41.923  | 37.485  | 53.876  |
|    | HEM881002232 | 56.752  | 32.790  | 128.643 | 36.535  | 28.693  | 32.710  | 31.447  | 41.940  |
|    | HEM881002245 | 31.084  | 9.332   | 17.943  | 11.049  | 11.834  | 11.864  | 17.012  | 14.199  |
|    | HEM881002247 | 151.502 | 27.325  | 64.167  | 10.018  | 26.829  | 62.501  | 35.734  | 21.698  |
|    | HEM881002249 | 153.327 | 94.814  | 380.989 | 101.573 | 65.579  | 80.049  | 62.653  | 85.673  |
|    | HEM881002254 | 43.885  | 36.756  | 118.582 | 29.328  | 19.323  | 11.675  | 12.693  | 22.229  |
| 45 | HEM881002255 | 8.633   | 2.293   | 14.174  | 8.771   | 1.813   | 2.385   | 3.358   | 3.589   |
|    | HEM881002266 | 5.303   | 5.716   | 8.530   | 6.222   | 1.842   | 2.404   | 4.411   | 2.295   |
|    | HEM881002271 | 160.682 | 46.654  | 157.828 | 58.291  | 63.843  | 72.913  | 62.659  | 73.702  |
|    | HEM881002280 | 24.597  | 13.246  | 76.763  | 13.976  | 7.742   | 9.196   | 9.200   | 16.479  |
|    | HEM881002296 | 67.004  | 21.270  | 52.536  | 34.388  | 49.938  | 53.045  | 123.030 | 41.218  |
|    | HEM881002300 | 94.815  | 28.682  | 50.102  | 35.939  | 13.923  | 29.792  | 25.246  | 21.629  |
| 50 | HEM881002302 | 51.059  | 31.157  | 28.441  | 17.568  | 17.905  | 26.026  | 22.516  | 30.501  |
|    | HEM881002306 | 35.213  | 49.812  | 33.017  | 23.300  | 15.072  | 17.296  | 14.490  | 16.293  |
|    | HEM881002316 | 19.773  | 8.638   | 19.354  | 3.667   | 9.274   | 9.974   | 8.613   | 6.883   |
|    | HEM881002326 | 201.896 | 126.797 | 406.052 | 154.628 | 89.356  | 85.970  | 54.052  | 98.198  |
|    | HEM881002327 | 85.792  | 48.221  | 184.126 | 47.724  | 32.764  | 29.959  | 17.415  | 34.542  |
|    | HEM881002329 | 69.191  | 21.714  | 43.746  | 25.618  | 17.775  | 24.892  | 32.481  | 27.906  |
| 55 | HEM881002340 | 18.233  | 28.462  | 7.730   | 3.702   | 3.055   | 4.522   | 2.914   | 5.745   |

Table 48

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEM881002342 | 74.746  | 83.579  | 169.482 | 40.919  | 23.495  | 26.453  | 33.215  | 66.420  |
|    | HEM881002358 | 149.857 | 132.962 | 286.214 | 85.160  | 50.855  | 67.646  | 36.624  | 78.432  |
| 5  | HEM881002359 | 160.804 | 77.260  | 219.199 | 68.995  | 44.093  | 58.049  | 35.955  | 51.139  |
|    | HEM881002364 | 102.885 | 74.409  | 188.270 | 50.973  | 55.276  | 45.770  | 40.780  | 59.739  |
|    | HEM881002366 | 152.074 | 77.016  | 248.465 | 68.268  | 81.100  | 64.637  | 39.912  | 60.303  |
|    | HEM881002371 | 44.433  | 12.342  | 26.565  | 13.307  | 36.600  | 10.553  | 9.238   | 5.351   |
|    | HEM881002381 | 134.427 | 77.953  | 207.310 | 57.210  | 48.215  | 64.049  | 51.493  | 77.629  |
|    | HEM881002383 | 164.205 | 52.312  | 94.064  | 31.346  | 31.368  | 30.947  | 43.038  | 47.640  |
| 10 | HEM881002387 | 196.859 | 164.904 | 235.139 | 49.485  | 25.102  | 93.004  | 52.536  | 43.092  |
|    | HEM881002409 | 82.986  | 49.978  | 112.097 | 29.207  | 15.402  | 37.667  | 36.064  | 38.132  |
|    | HEM881002413 | 123.367 | 87.690  | 361.106 | 87.505  | 57.485  | 48.097  | 23.254  | 49.302  |
|    | HEM881002415 | 87.091  | 31.703  | 92.595  | 31.804  | 23.352  | 27.293  | 21.815  | 24.444  |
|    | HEM881002424 | 13.162  | 19.511  | 15.995  | 5.848   | 21.533  | 16.980  | 18.246  | 25.253  |
|    | HEM881002425 | 84.086  | 69.689  | 238.147 | 82.198  | 36.928  | 41.171  | 26.823  | 47.957  |
| 15 | HEM881002427 | 143.727 | 26.894  | 50.430  | 25.865  | 40.707  | 52.937  | 38.610  | 47.517  |
|    | HEM881002442 | 163.853 | 121.153 | 501.168 | 129.909 | 73.231  | 81.033  | 47.108  | 287.238 |
|    | HEM881002447 | 107.214 | 80.007  | 214.338 | 58.963  | 41.313  | 60.452  | 49.159  | 44.523  |
|    | HEM881002453 | 163.250 | 93.442  | 384.443 | 93.027  | 68.808  | 58.565  | 46.254  | 58.810  |
|    | HEM881002457 | 116.756 | 104.520 | 330.657 | 83.026  | 46.720  | 50.971  | 38.415  | 57.991  |
|    | HEM881002458 | 18.721  | 11.278  | 23.232  | 9.587   | 7.205   | 6.051   | 4.659   | 4.343   |
| 20 | HEM881002463 | 229.657 | 146.001 | 663.683 | 193.622 | 138.458 | 104.827 | 52.827  | 110.558 |
|    | HEM881002465 | 44.210  | 23.316  | 33.631  | 20.895  | 17.932  | 26.471  | 19.122  | 19.703  |
|    | HEM881002477 | 98.948  | 27.813  | 153.875 | 11.062  | 36.071  | 16.072  | 13.791  | 8.347   |
|    | HEM881002479 | 23.249  | 59.003  | 73.224  | 14.014  | 10.084  | 13.246  | 1.980   | 8.949   |
|    | HEM881002489 | 78.748  | 24.690  | 71.038  | 31.400  | 39.869  | 43.673  | 44.800  | 75.957  |
|    | HEM881002492 | 9.080   | 6.989   | 26.130  | 3.092   | 1.453   | 5.606   | 1.415   | 2.381   |
| 25 | HEM881002495 | 95.752  | 104.949 | 301.328 | 60.728  | 72.404  | 45.161  | 24.771  | 61.121  |
|    | HEM881002502 | 17.132  | 17.866  | 14.643  | 16.170  | 15.224  | 14.056  | 4.504   | 23.313  |
|    | HEM881002509 | 0.913   | 2.235   | 7.269   | 4.304   | 0.743   | 1.283   | 1.504   | 6.154   |
|    | HEM881002510 | 0.732   | 0.000   | 0.000   | 1.858   | 0.926   | 0.000   | 0.000   | 0.000   |
|    | HEM881002520 | 249.875 | 127.604 | 585.470 | 169.423 | 138.712 | 90.360  | 100.598 | 112.828 |
|    | HEM881002522 | 24.741  | 27.480  | 12.342  | 14.142  | 17.452  | 5.861   | 8.292   | 8.541   |
| 30 | HEM881002527 | 63.012  | 61.066  | 87.388  | 46.392  | 29.555  | 37.187  | 25.642  | 36.089  |
|    | HEM881002530 | 72.655  | 45.682  | 83.329  | 21.750  | 21.479  | 53.227  | 440.333 | 38.710  |
|    | HEM881002531 | 40.398  | 18.832  | 10.308  | 9.953   | 5.539   | 16.743  | 11.880  | 8.115   |
|    | HEM881002534 | 78.552  | 49.139  | 154.741 | 66.211  | 30.154  | 46.591  | 28.712  | 37.112  |
|    | HEM881002536 | 27.609  | 22.843  | 52.264  | 17.646  | 8.234   | 13.078  | 23.458  | 15.919  |
|    | HEM881002544 | 24.012  | 6.185   | 27.814  | 13.117  | 39.363  | 15.921  | 9.427   | 14.017  |
|    | HEM881002545 | 108.234 | 31.929  | 243.949 | 50.972  | 16.032  | 40.343  | 31.828  | 13.472  |
| 35 | HEM881002550 | 31.850  | 11.452  | 10.668  | 11.228  | 11.049  | 10.100  | 14.262  | 14.910  |
|    | HEM881002556 | 125.621 | 89.607  | 311.607 | 79.974  | 50.209  | 57.837  | 53.696  | 54.119  |
|    | HEM881002571 | 33.047  | 21.526  | 54.457  | 14.847  | 25.892  | 21.961  | 5.482   | 18.608  |
|    | HEM881002579 | 75.252  | 55.132  | 229.479 | 48.891  | 31.521  | 43.266  | 24.667  | 31.554  |
|    | HEM881002582 | 100.572 | 56.574  | 258.453 | 63.093  | 45.740  | 39.580  | 26.474  | 45.912  |
|    | HEM881002584 | 8.325   | 7.614   | 13.574  | 6.883   | 1.796   | 7.655   | 6.183   | 4.955   |
| 40 | HEM881002587 | 57.430  | 44.383  | 60.900  | 47.981  | 30.048  | 30.562  | 19.161  | 20.854  |
|    | HEM881002590 | 114.241 | 78.587  | 179.926 | 65.737  | 28.629  | 43.657  | 33.101  | 34.032  |
|    | HEM881002596 | 278.617 | 90.944  | 275.018 | 69.006  | 68.247  | 114.505 | 88.149  | 59.750  |
|    | HEM881002600 | 17.618  | 16.003  | 23.907  | 4.699   | 9.726   | 10.133  | 7.945   | 8.940   |
|    | HEM881002601 | 67.910  | 48.188  | 183.948 | 45.346  | 38.021  | 37.423  | 21.860  | 33.698  |
|    | HEM881002603 | 69.793  | 43.222  | 141.343 | 36.733  | 28.849  | 35.264  | 22.033  | 29.436  |
| 45 | HEM881002607 | 64.941  | 36.284  | 134.598 | 39.424  | 22.220  | 31.501  | 15.575  | 31.024  |
|    | HEM881002610 | 22.852  | 9.200   | 51.294  | 16.832  | 6.664   | 12.856  | 6.433   | 6.515   |
|    | HEM881002613 | 85.026  | 60.872  | 161.891 | 47.532  | 36.559  | 44.841  | 24.569  | 31.062  |
|    | HEM881002614 | 65.074  | 30.721  | 39.687  | 10.970  | 15.910  | 13.297  | 10.461  | 5.438   |
|    | HEM881002615 | 230.370 | 55.581  | 35.517  | 11.758  | 7.258   | 46.064  | 22.857  | 86.789  |
|    | HEM881002617 | 69.016  | 67.288  | 254.296 | 42.530  | 30.217  | 36.395  | 21.284  | 37.688  |
| 50 | HEM881002623 | 92.506  | 78.124  | 204.116 | 60.739  | 20.110  | 48.078  | 32.253  | 43.355  |
|    | HEM881002624 | 77.755  | 27.026  | 163.976 | 33.209  | 25.309  | 20.104  | 21.741  | 24.486  |
|    | HEM881002631 | 10.297  | 18.892  | 12.879  | 14.916  | 7.219   | 5.864   | 6.990   | 11.537  |
|    | HEM881002635 | 88.049  | 68.172  | 141.149 | 41.853  | 40.290  | 23.649  | 21.781  | 44.425  |
|    | HEM881002644 | 98.956  | 65.380  | 26.659  | 19.268  | 9.200   | 38.890  | 35.668  | 29.597  |
|    | HEM881002654 | 127.571 | 78.659  | 51.653  | 28.747  | 32.125  | 137.732 | 315.048 | 39.477  |
| 55 | HEM881002661 | 106.501 | 46.651  | 47.116  | 19.470  | 20.684  | 30.561  | 24.281  | 118.028 |

Table 49

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | HEM8B1002663 | 100.783 | 42.600  | 100.008 | 36.841  | 24.382  | 35.028  | 41.975  | 18.150  |
|    | HEM8B1002664 | 179.828 | 131.008 | 395.057 | 51.235  | 74.731  | 89.130  | 40.814  | 55.262  |
| 5  | HEM8B1002677 | 2.206   | 3.466   | 5.138   | 4.981   | 2.314   | 4.033   | 3.301   | 1.422   |
|    | HEM8B1002683 | 118.247 | 69.327  | 247.117 | 55.886  | 44.381  | 26.944  | 27.017  | 42.278  |
|    | HEM8B1002684 | 40.291  | 21.056  | 46.317  | 17.772  | 9.039   | 5.460   | 8.120   | 14.377  |
|    | HEM8B1002686 | 30.893  | 12.882  | 26.031  | 19.059  | 3.146   | 12.807  | 18.055  | 9.131   |
|    | HEM8B1002692 | 48.969  | 24.335  | 52.440  | 29.779  | 19.960  | 25.893  | 38.755  | 15.268  |
|    | HEM8B1002693 | 129.760 | 76.886  | 322.740 | 70.620  | 62.314  | 67.760  | 73.429  | 39.005  |
| 10 | HEM8B1002697 | 41.673  | 38.793  | 25.105  | 8.999   | 2.058   | 7.613   | 10.266  | 29.797  |
|    | HEM8B1002699 | 223.756 | 165.884 | 369.080 | 116.529 | 77.378  | 109.419 | 79.393  | 99.532  |
|    | HEM8B1002702 | 13.506  | 15.782  | 24.367  | 3.561   | 6.434   | 15.699  | 13.253  | 24.914  |
|    | HEM8B1002705 | 29.934  | 20.276  | 16.478  | 21.230  | 7.599   | 11.487  | 18.202  | 30.589  |
|    | HEM8B1002712 | 29.588  | 10.805  | 47.572  | 15.673  | 13.434  | 15.691  | 7.559   | 16.536  |
|    | IMR321000028 | 77.081  | 39.937  | 40.934  | 18.725  | 8.281   | 41.195  | 27.733  | 21.472  |
| 15 | IMR321000031 | 50.644  | 21.357  | 34.754  | 22.184  | 15.786  | 31.242  | 22.705  | 14.148  |
|    | IMR321000034 | 76.518  | 63.230  | 37.290  | 51.243  | 23.808  | 43.858  | 26.605  | 67.455  |
|    | IMR321000039 | 66.895  | 68.027  | 83.136  | 36.653  | 27.339  | 62.232  | 57.760  | 88.100  |
|    | IMR321000044 | 1.614   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 1.970   | 0.000   |
|    | IMR321000063 | 131.633 | 84.822  | 66.499  | 84.753  | 43.262  | 73.363  | 69.831  | 80.878  |
|    | IMR321000085 | 157.704 | 34.180  | 42.747  | 11.752  | 50.766  | 66.106  | 54.160  | 47.424  |
| 20 | IMR321000089 | 52.645  | 22.980  | 31.408  | 17.365  | 13.731  | 36.296  | 27.222  | 10.181  |
|    | IMR321000091 | 39.993  | 32.664  | 43.895  | 41.311  | 25.143  | 35.002  | 20.444  | 63.906  |
|    | LIVER1000004 | 45.674  | 30.112  | 69.445  | 16.874  | 11.073  | 28.505  | 106.044 | 24.660  |
|    | LIVER1000008 | 23.703  | 14.444  | 22.304  | 9.381   | 15.657  | 274.776 | 344.333 | 11.282  |
|    | LIVER1000011 | 107.957 | 31.187  | 106.032 | 30.434  | 41.030  | 41.256  | 348.474 | 63.939  |
|    | LIVER1000022 | 402.839 | 177.843 | 270.232 | 82.143  | 125.292 | 206.780 | 141.934 | 124.260 |
| 25 | LIVER1000025 | 61.584  | 42.776  | 172.307 | 36.300  | 26.856  | 33.045  | 34.820  | 42.189  |
|    | LIVER1000030 | 62.987  | 24.034  | 69.275  | 29.784  | 17.581  | 22.393  | 51.178  | 22.556  |
|    | LIVER1000045 | 27.941  | 4.859   | 27.468  | 7.384   | 9.755   | 14.426  | 20.651  | 24.802  |
|    | LIVER1000046 | 180.297 | 117.998 | 24.240  | 23.527  | 16.373  | 7.466   | 27.795  | 66.724  |
|    | LIVER1000072 | 24.097  | 35.964  | 6.976   | 11.158  | 7.657   | 8.260   | 16.555  | 4.898   |
|    | LIVER1000077 | 90.518  | 39.165  | 17.306  | 13.193  | 25.835  | 52.139  | 348.056 | 37.506  |
| 30 | LIVER1000080 | 17.084  | 4.918   | 5.980   | 9.600   | 2.294   | 5.176   | 6.495   | 4.479   |
|    | LIVER1000086 | 82.711  | 55.169  | 150.708 | 18.858  | 19.278  | 176.018 | 481.085 | 27.747  |
|    | LIVER1000092 | 61.883  | 36.836  | 116.592 | 27.330  | 16.805  | 25.266  | 35.863  | 24.160  |
|    | LIVER1000095 | 54.562  | 13.959  | 104.146 | 23.878  | 13.158  | 200.163 | 137.395 | 5.508   |
|    | LIVER1000097 | 138.286 | 11.401  | 12.265  | 8.127   | 9.389   | 9.669   | 32.751  | 7.159   |
|    | LIVER1000098 | 58.055  | 39.291  | 47.410  | 18.991  | 19.124  | 20.338  | 142.508 | 19.104  |
| 35 | LIVER1000100 | 81.693  | 64.546  | 94.504  | 29.185  | 18.588  | 42.254  | 23.727  | 58.633  |
|    | LIVER1000101 | 52.507  | 16.303  | 57.500  | 10.286  | 8.662   | 17.642  | 6.129   | 27.273  |
|    | LIVER1000106 | 46.259  | 32.121  | 32.438  | 11.568  | 9.377   | 13.216  | 102.126 | 16.904  |
|    | LIVER1000108 | 26.277  | 50.565  | 62.172  | 25.422  | 16.619  | 17.243  | 38.369  | 18.508  |
|    | LIVER1000115 | 23.571  | 18.673  | 71.367  | 14.244  | 11.023  | 17.910  | 427.626 | 11.136  |
|    | LIVER1000120 | 100.902 | 21.640  | 35.183  | 16.565  | 26.236  | 39.037  | 87.151  | 16.249  |
| 40 | LIVER1000138 | 69.624  | 27.584  | 56.479  | 22.794  | 25.076  | 42.015  | 35.937  | 23.833  |
|    | LIVER1000146 | 107.757 | 63.296  | 209.735 | 54.534  | 42.231  | 45.210  | 254.168 | 42.466  |
|    | LIVER1000148 | 141.467 | 42.327  | 108.510 | 37.031  | 31.920  | 62.584  | 125.466 | 65.728  |
|    | LIVER1000157 | 97.282  | 37.198  | 50.979  | 49.952  | 35.021  | 43.954  | 52.527  | 43.221  |
|    | LIVER1000161 | 100.902 | 24.883  | 57.647  | 28.329  | 31.562  | 42.781  | 89.198  | 30.740  |
|    | LIVER1000167 | 97.214  | 29.093  | 41.460  | 25.700  | 26.316  | 112.706 | 332.789 | 30.702  |
|    | LIVER1000174 | 53.927  | 23.440  | 26.353  | 13.595  | 12.625  | 36.580  | 71.460  | 10.512  |
| 45 | LIVER1000185 | 49.746  | 20.428  | 31.630  | 13.964  | 13.391  | 16.773  | 16.676  | 14.878  |
|    | LIVER1000187 | 38.332  | 8.211   | 15.200  | 4.654   | 8.084   | 9.846   | 567.808 | 8.320   |
|    | LIVER1000190 | 93.672  | 29.635  | 50.518  | 15.812  | 18.768  | 23.709  | 41.865  | 11.496  |
|    | LIVER1000192 | 141.875 | 53.337  | 99.330  | 32.936  | 41.210  | 79.500  | 128.608 | 47.907  |
|    | MAMMA1000009 | 99.036  | 77.266  | 234.005 | 72.924  | 40.612  | 44.930  | 25.218  | 35.909  |
|    | MAMMA1000015 | 40.458  | 7.192   | 19.901  | 13.017  | 12.921  | 18.315  | 13.014  | 8.185   |
| 50 | MAMMA1000019 | 62.999  | 29.927  | 150.049 | 52.037  | 36.450  | 42.958  | 38.148  | 30.172  |
|    | MAMMA1000020 | 58.696  | 30.055  | 181.093 | 40.615  | 38.572  | 34.176  | 18.169  | 20.807  |
|    | MAMMA1000024 | 15.610  | 5.088   | 15.411  | 7.263   | 3.468   | 11.662  | 37.960  | 9.224   |
|    | MAMMA1000025 | 53.706  | 37.358  | 123.944 | 37.766  | 29.177  | 24.650  | 18.530  | 21.156  |
|    | MAMMA1000043 | 170.220 | 108.774 | 290.077 | 126.472 | 100.059 | 82.087  | 70.843  | 76.243  |
|    | MAMMA1000045 | 83.118  | 48.873  | 22.107  | 10.125  | 5.779   | 15.440  | 7.895   | 8.811   |
| 55 | MAMMA1000046 | 117.084 | 44.858  | 285.890 | 66.458  | 43.862  | 36.388  | 23.428  | 22.376  |

Table 50

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | MAMMA1000055 | 65.118  | 40.884  | 57.307  | 29.859  | 27.445  | 33.405  | 22.066  | 23.563  |
|    | MAMMA1000057 | 170.331 | 108.479 | 421.160 | 100.366 | 84.331  | 77.475  | 42.047  | 55.847  |
| 5  | MAMMA1000060 | 79.698  | 50.265  | 153.319 | 49.223  | 28.927  | 42.539  | 25.636  | 52.458  |
|    | MAMMA1000069 | 118.921 | 35.010  | 182.272 | 48.764  | 43.720  | 61.342  | 45.357  | 33.115  |
|    | MAMMA1000084 | 128.354 | 92.819  | 277.404 | 87.542  | 63.176  | 65.262  | 34.266  | 45.092  |
|    | MAMMA1000085 | 40.199  | 20.019  | 40.608  | 21.956  | 13.181  | 18.822  | 36.347  | 26.209  |
|    | MAMMA1000092 | 77.338  | 37.915  | 167.474 | 43.988  | 16.101  | 26.961  | 15.531  | 22.390  |
|    | MAMMA1000096 | 55.344  | 38.495  | 38.888  | 25.605  | 11.893  | 44.990  | 24.784  | 25.160  |
| 10 | MAMMA1000097 | 62.546  | 54.694  | 52.522  | 52.269  | 24.807  | 65.730  | 25.787  | 23.298  |
|    | MAMMA1000102 | 67.585  | 32.797  | 91.551  | 31.689  | 19.430  | 26.892  | 22.353  | 16.842  |
|    | MAMMA1000103 | 63.752  | 26.301  | 89.530  | 30.004  | 12.188  | 31.709  | 11.461  | 14.718  |
|    | MAMMA1000106 | 37.916  | 23.228  | 90.795  | 22.075  | 14.445  | 24.686  | 16.649  | 17.569  |
|    | MAMMA1000117 | 58.533  | 24.502  | 43.190  | 22.445  | 16.140  | 27.418  | 15.487  | 13.269  |
|    | MAMMA1000118 | 104.168 | 58.433  | 63.822  | 8.833   | 24.039  | 42.731  | 38.062  | 43.242  |
| 15 | MAMMA1000129 | 170.665 | 72.256  | 98.813  | 45.970  | 22.181  | 58.739  | 50.197  | 14.587  |
|    | MAMMA1000133 | 62.435  | 25.090  | 33.061  | 20.713  | 14.310  | 34.686  | 18.642  | 14.101  |
|    | MAMMA1000134 | 106.522 | 79.090  | 246.344 | 90.530  | 127.758 | 76.596  | 45.325  | 60.360  |
|    | MAMMA1000139 | 78.566  | 47.362  | 99.179  | 34.535  | 22.772  | 37.601  | 28.841  | 28.280  |
|    | MAMMA1000141 | 30.121  | 20.528  | 28.150  | 13.910  | 5.510   | 14.314  | 12.120  | 15.748  |
|    | MAMMA1000143 | 16.647  | 8.669   | 41.797  | 8.690   | 9.949   | 10.059  | 4.040   | 8.280   |
| 20 | MAMMA1000150 | 128.128 | 259.413 | 21.844  | 28.777  | 86.623  | 42.827  | 51.840  | 42.986  |
|    | MAMMA1000155 | 205.031 | 88.642  | 291.247 | 110.884 | 80.817  | 97.755  | 63.045  | 78.585  |
|    | MAMMA1000163 | 43.643  | 36.898  | 57.239  | 22.848  | 21.852  | 41.672  | 11.036  | 10.618  |
|    | MAMMA1000171 | 141.225 | 46.928  | 265.746 | 98.189  | 60.007  | 66.037  | 34.872  | 50.109  |
|    | MAMMA1000173 | 103.027 | 21.955  | 68.080  | 33.572  | 25.668  | 45.271  | 40.340  | 52.609  |
|    | MAMMA1000175 | 19.316  | 8.683   | 7.960   | 4.550   | 3.535   | 7.894   | 5.974   | 4.015   |
| 25 | MAMMA1000183 | 57.490  | 35.830  | 148.702 | 42.892  | 23.250  | 23.680  | 21.050  | 46.992  |
|    | MAMMA1000191 | 88.722  | 31.449  | 40.834  | 26.064  | 22.392  | 26.766  | 36.253  | 27.729  |
|    | MAMMA1000192 | 53.467  | 25.096  | 30.205  | 28.380  | 21.976  | 101.288 | 128.339 | 44.025  |
|    | MAMMA1000193 | 83.936  | 36.823  | 36.836  | 29.409  | 18.905  | 35.131  | 35.059  | 36.667  |
|    | MAMMA1000198 | 132.127 | 93.550  | 347.292 | 70.840  | 49.278  | 62.924  | 38.858  | 66.720  |
|    | MAMMA1000204 | 64.455  | 59.079  | 71.789  | 26.771  | 29.275  | 55.156  | 62.132  | 49.295  |
|    | MAMMA1000207 | 45.771  | 62.052  | 52.332  | 19.986  | 16.418  | 37.618  | 225.196 | 18.506  |
| 30 | MAMMA1000214 | 100.292 | 62.311  | 289.223 | 62.541  | 32.825  | 57.748  | 32.755  | 39.770  |
|    | MAMMA1000220 | 91.389  | 23.816  | 43.034  | 13.919  | 12.649  | 42.421  | 29.143  | 20.494  |
|    | MAMMA1000221 | 39.338  | 35.655  | 11.931  | 39.315  | 9.426   | 18.802  | 27.741  | 17.121  |
|    | MAMMA1000226 | 65.096  | 20.174  | 11.901  | 11.838  | 17.236  | 23.487  | 43.016  | 24.801  |
|    | MAMMA1000227 | 94.333  | 64.156  | 183.365 | 82.763  | 58.478  | 66.811  | 43.961  | 53.250  |
| 35 | MAMMA1000230 | 116.378 | 47.908  | 97.869  | 47.218  | 38.196  | 56.380  | 71.726  | 37.727  |
|    | MAMMA1000241 | 53.737  | 85.177  | 107.748 | 60.815  | 31.230  | 51.839  | 36.525  | 22.770  |
|    | MAMMA1000245 | 107.413 | 148.468 | 205.437 | 144.478 | 51.682  | 86.017  | 93.183  | 198.398 |
|    | MAMMA1000248 | 205.478 | 88.411  | 342.827 | 76.468  | 51.702  | 110.723 | 70.650  | 60.978  |
|    | MAMMA1000251 | 115.401 | 47.888  | 209.360 | 39.959  | 42.597  | 57.904  | 34.572  | 51.015  |
|    | MAMMA1000254 | 43.161  | 20.910  | 114.081 | 20.548  | 9.699   | 9.885   | 5.346   | 32.024  |
|    | MAMMA1000257 | 142.781 | 70.118  | 332.822 | 104.425 | 84.387  | 124.673 | 78.270  | 116.103 |
| 40 | MAMMA1000262 | 18.952  | 34.301  | 19.786  | 32.516  | 14.840  | 15.513  | 23.805  | 35.519  |
|    | MAMMA1000264 | 59.532  | 20.630  | 124.043 | 44.847  | 29.466  | 21.390  | 22.616  | 37.039  |
|    | MAMMA1000266 | 55.476  | 28.959  | 122.654 | 35.663  | 27.018  | 24.021  | 20.212  | 38.284  |
|    | MAMMA1000270 | 142.968 | 64.234  | 270.948 | 75.022  | 64.760  | 68.130  | 64.006  | 73.994  |
|    | MAMMA1000271 | 53.605  | 9.611   | 35.682  | 12.139  | 16.139  | 24.236  | 26.722  | 26.433  |
|    | MAMMA1000277 | 56.407  | 16.435  | 98.448  | 19.751  | 12.725  | 33.047  | 23.839  | 33.012  |
| 45 | MAMMA1000278 | 40.286  | 13.365  | 19.395  | 9.730   | 12.609  | 20.423  | 25.204  | 22.237  |
|    | MAMMA1000279 | 68.661  | 36.984  | 173.379 | 46.809  | 34.441  | 42.500  | 26.143  | 48.597  |
|    | MAMMA1000283 | 55.199  | 27.095  | 46.168  | 22.395  | 15.870  | 21.308  | 16.298  | 18.504  |
|    | MAMMA1000284 | 76.726  | 67.676  | 42.784  | 39.851  | 34.586  | 47.651  | 39.169  | 48.342  |
|    | MAMMA1000287 | 73.583  | 58.726  | 142.953 | 39.301  | 31.007  | 27.370  | 29.006  | 35.599  |
|    | MAMMA1000294 | 457.450 | 361.106 | 313.407 | 116.696 | 112.848 | 343.951 | 155.948 | 100.375 |
| 50 | MAMMA1000298 | 31.731  | 25.511  | 41.413  | 16.220  | 16.320  | 14.676  | 22.043  | 20.205  |
|    | MAMMA1000302 | 109.379 | 58.532  | 280.880 | 69.156  | 44.790  | 36.788  | 28.220  | 40.861  |
|    | MAMMA1000303 | 67.505  | 14.147  | 18.804  | 11.073  | 33.859  | 26.599  | 30.177  | 30.810  |
|    | MAMMA1000305 | 32.363  | 19.693  | 108.733 | 15.375  | 12.695  | 14.455  | 13.353  | 15.189  |
|    | MAMMA1000307 | 279.600 | 75.098  | 397.421 | 75.020  | 45.244  | 68.757  | 131.117 | 116.800 |
|    | MAMMA1000309 | 11.679  | 39.455  | 13.529  | 3.502   | 3.904   | 8.895   | 10.500  | 6.744   |
| 55 | MAMMA1000312 | 22.645  | 50.288  | 9.368   | 4.180   | 3.450   | 4.882   | 7.079   | 7.576   |



Table 51

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | MAMMA1000313 | 79.577  | 69.550  | 54.317  | 10.741  | 60.526  | 42.964  | 18.206  | 37.303  |
|    | MAMMA1000331 | 80.910  | 48.868  | 139.047 | 33.811  | 22.564  | 15.207  | 18.580  | 21.385  |
| 5  | MAMMA1000335 | 54.800  | 22.399  | 33.190  | 18.244  | 16.273  | 30.688  | 26.611  | 30.790  |
|    | MAMMA1000339 | 69.222  | 40.948  | 83.679  | 13.158  | 20.941  | 22.134  | 20.026  | 10.739  |
|    | MAMMA1000340 | 57.498  | 34.708  | 164.968 | 32.922  | 28.610  | 23.069  | 18.858  | 23.519  |
|    | MAMMA1000348 | 78.099  | 102.955 | 374.737 | 55.033  | 32.546  | 66.256  | 22.303  | 23.575  |
|    | MAMMA1000356 | 152.238 | 116.086 | 454.516 | 67.232  | 34.525  | 47.884  | 22.865  | 61.267  |
|    | MAMMA1000358 | 34.367  | 56.332  | 15.362  | 15.091  | 16.743  | 17.405  | 19.645  | 7.358   |
| 10 | MAMMA1000360 | 71.104  | 74.351  | 246.244 | 43.414  | 24.093  | 24.945  | 14.842  | 14.739  |
|    | MAMMA1000361 | 101.653 | 93.468  | 230.215 | 73.577  | 45.022  | 37.236  | 37.987  | 42.992  |
|    | MAMMA1000363 | 71.108  | 19.232  | 39.013  | 13.717  | 23.713  | 30.739  | 27.813  | 32.485  |
|    | MAMMA1000370 | 171.867 | 108.830 | 110.466 | 80.949  | 52.076  | 79.266  | 57.877  | 247.810 |
|    | MAMMA1000371 | 100.543 | 32.223  | 80.873  | 48.039  | 49.442  | 91.739  | 57.647  | 46.599  |
|    | MAMMA1000372 | 206.850 | 114.326 | 609.068 | 130.138 | 79.980  | 80.890  | 54.857  | 97.509  |
| 15 | MAMMA1000385 | 72.074  | 60.911  | 238.462 | 40.061  | 34.528  | 31.361  | 22.458  | 45.681  |
|    | MAMMA1000388 | 118.855 | 69.094  | 105.789 | 42.626  | 50.059  | 55.389  | 37.396  | 37.825  |
|    | MAMMA1000395 | 97.031  | 44.493  | 34.493  | 20.201  | 19.036  | 27.695  | 24.269  | 17.433  |
|    | MAMMA1000402 | 126.085 | 107.637 | 256.584 | 68.415  | 45.669  | 61.486  | 30.340  | 30.943  |
|    | MAMMA1000403 | 87.558  | 63.749  | 208.574 | 64.857  | 45.578  | 44.799  | 22.710  | 42.239  |
|    | MAMMA1000410 | 43.073  | 43.539  | 94.207  | 39.613  | 19.880  | 22.573  | 16.272  | 21.003  |
| 20 | MAMMA1000413 | 30.829  | 13.370  | 70.418  | 17.102  | 13.392  | 15.291  | 11.599  | 15.353  |
|    | MAMMA1000414 | 125.550 | 111.622 | 81.672  | 15.722  | 51.528  | 14.549  | 28.214  | 13.858  |
|    | MAMMA1000416 | 179.864 | 103.793 | 427.214 | 107.383 | 105.899 | 121.441 | 55.040  | 84.667  |
|    | MAMMA1000421 | 131.712 | 73.475  | 307.780 | 70.841  | 55.037  | 49.498  | 34.519  | 46.482  |
|    | MAMMA1000422 | 12.614  | 14.628  | 30.167  | 16.100  | 11.675  | 22.441  | 18.843  | 54.831  |
|    | MAMMA1000423 | 34.100  | 22.150  | 69.677  | 18.461  | 13.815  | 15.645  | 8.500   | 8.869   |
|    | MAMMA1000424 | 9.330   | 4.056   | 36.234  | 8.171   | 0.971   | 2.769   | 0.745   | 7.267   |
| 25 | MAMMA1000429 | 575.321 | 219.603 | 317.414 | 158.529 | 150.779 | 290.300 | 196.161 | 149.619 |
|    | MAMMA1000431 | 143.825 | 79.993  | 275.497 | 82.499  | 52.496  | 63.425  | 43.337  | 66.733  |
|    | MAMMA1000432 | 65.212  | 17.117  | 24.472  | 28.083  | 17.360  | 33.881  | 27.547  | 29.615  |
|    | MAMMA1000437 | 89.375  | 88.947  | 265.572 | 60.025  | 69.885  | 45.195  | 30.823  | 31.510  |
|    | MAMMA1000444 | 120.017 | 124.234 | 477.772 | 115.966 | 65.200  | 66.888  | 31.943  | 88.274  |
|    | MAMMA1000446 | 50.201  | 66.027  | 41.406  | 8.991   | 18.971  | 29.395  | 7.985   | 37.220  |
| 30 | MAMMA1000449 | 81.386  | 41.427  | 180.761 | 40.414  | 25.983  | 35.232  | 23.109  | 27.942  |
|    | MAMMA1000457 | 47.862  | 13.862  | 15.095  | 11.981  | 7.566   | 21.142  | 12.971  | 10.872  |
|    | MAMMA1000458 | 34.485  | 13.749  | 22.864  | 12.116  | 11.199  | 18.881  | 15.924  | 10.046  |
|    | MAMMA1000468 | 8.235   | 7.843   | 6.029   | 5.004   | 5.503   | 8.258   | 7.138   | 1.618   |
|    | MAMMA1000472 | 250.243 | 67.964  | 110.774 | 68.614  | 73.186  | 111.758 | 88.016  | 79.409  |
|    | MAMMA1000473 | 54.174  | 16.506  | 40.489  | 16.002  | 17.450  | 26.506  | 17.741  | 13.900  |
| 35 | MAMMA1000477 | 77.316  | 50.237  | 238.943 | 56.460  | 38.807  | 32.776  | 36.438  | 35.332  |
|    | MAMMA1000478 | 201.299 | 157.097 | 496.514 | 127.872 | 82.832  | 77.444  | 49.296  | 86.763  |
|    | MAMMA1000483 | 107.340 | 74.554  | 252.463 | 60.824  | 31.055  | 44.198  | 44.167  | 87.449  |
|    | MAMMA1000490 | 14.473  | 14.068  | 16.023  | 12.496  | 8.202   | 15.654  | 11.091  | 12.344  |
|    | MAMMA1000496 | 32.756  | 10.554  | 20.693  | 10.676  | 19.830  | 19.282  | 13.204  | 13.410  |
|    | MAMMA1000500 | 23.016  | 17.584  | 49.151  | 15.706  | 13.914  | 19.063  | 11.094  | 22.904  |
| 40 | MAMMA1000501 | 196.637 | 102.490 | 468.793 | 104.118 | 67.761  | 83.834  | 76.446  | 86.912  |
|    | MAMMA1000503 | 7.083   | 4.085   | 3.866   | 1.004   | 1.005   | 3.752   | 4.005   | 3.248   |
|    | MAMMA1000506 | 201.452 | 116.279 | 151.434 | 56.847  | 78.502  | 149.780 | 99.352  | 64.069  |
|    | MAMMA1000510 | 70.898  | 18.432  | 60.927  | 39.187  | 33.327  | 42.829  | 40.993  | 33.127  |
|    | MAMMA1000515 | 43.923  | 30.031  | 85.637  | 35.744  | 18.805  | 21.837  | 19.339  | 17.922  |
|    | MAMMA1000518 | 74.742  | 48.811  | 148.307 | 43.452  | 18.069  | 34.061  | 19.122  | 26.985  |
| 45 | MAMMA1000522 | 53.273  | 23.845  | 132.197 | 22.861  | 14.594  | 24.776  | 12.095  | 27.578  |
|    | MAMMA1000524 | 130.806 | 61.389  | 266.529 | 71.558  | 50.972  | 73.691  | 47.484  | 55.510  |
|    | MAMMA1000528 | 38.579  | 27.136  | 46.940  | 35.839  | 15.860  | 29.316  | 19.300  | 24.797  |
|    | MAMMA1000534 | 32.603  | 20.088  | 33.950  | 10.973  | 7.185   | 10.580  | 7.972   | 10.160  |
|    | MAMMA1000541 | 165.518 | 58.806  | 85.648  | 63.188  | 27.705  | 52.036  | 46.200  | 39.018  |
|    | MAMMA1000550 | 119.597 | 203.059 | 41.184  | 24.393  | 5.859   | 48.433  | 766.194 | 63.005  |
| 50 | MAMMA1000556 | 31.963  | 15.056  | 15.588  | 8.634   | 11.294  | 15.698  | 21.467  | 16.597  |
|    | MAMMA1000559 | 57.738  | 31.181  | 242.155 | 29.443  | 19.030  | 26.908  | 13.520  | 41.571  |
|    | MAMMA1000565 | 118.770 | 30.318  | 289.829 | 37.509  | 33.728  | 38.720  | 18.344  | 26.847  |
|    | MAMMA1000567 | 77.050  | 44.379  | 224.645 | 48.804  | 41.102  | 56.039  | 36.496  | 63.529  |
|    | MAMMA1000576 | 271.038 | 180.600 | 661.566 | 221.987 | 157.443 | 132.385 | 93.679  | 129.843 |
|    | MAMMA1000582 | 54.936  | 43.406  | 272.366 | 14.342  | 18.896  | 29.396  | 46.333  | 40.210  |
| 55 | MAMMA1000583 | 90.692  | 51.670  | 147.946 | 34.905  | 17.175  | 23.177  | 19.077  | 40.824  |

Table 52

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|              |         |         |         |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| MAMMA1000585 | 89.865  | 50.008  | 288.673 | 52.259  | 29.243  | 39.188  | 24.088  | 46.734  |
| MAMMA1000587 | 47.955  | 14.789  | 58.279  | 12.415  | 6.584   | 14.410  | 15.734  | 6.826   |
| MAMMA1000591 | 77.705  | 38.280  | 81.784  | 28.019  | 20.094  | 28.578  | 24.299  | 19.949  |
| MAMMA1000594 | 194.593 | 94.384  | 488.898 | 91.064  | 59.244  | 55.681  | 43.577  | 75.029  |
| MAMMA1000597 | 496.923 | 264.906 | 751.636 | 196.294 | 121.483 | 306.397 | 199.968 | 160.426 |
| MAMMA1000605 | 324.584 | 183.667 | 990.246 | 209.555 | 135.844 | 158.096 | 97.598  | 149.183 |
| MAMMA1000612 | 68.113  | 22.051  | 42.999  | 14.074  | 19.294  | 41.220  | 29.460  | 15.713  |
| MAMMA1000614 | 580.099 | 136.874 | 402.890 | 69.022  | 127.808 | 309.892 | 249.344 | 194.110 |
| MAMMA1000616 | 2.590   | 16.442  | 13.809  | 1.109   | 3.011   | 7.500   | 3.036   | 3.188   |
| MAMMA1000621 | 19.258  | 12.723  | 14.307  | 13.200  | 5.971   | 12.028  | 11.561  | 11.081  |
| MAMMA1000623 | 60.189  | 23.285  | 25.913  | 12.057  | 10.648  | 23.327  | 19.218  | 20.667  |
| MAMMA1000625 | 651.334 | 249.117 | 346.876 | 155.944 | 192.671 | 373.924 | 300.473 | 274.263 |
| MAMMA1000635 | 4.459   | 2.994   | 4.756   | 2.883   | 0.000   | 4.118   | 5.584   | 9.542   |
| MAMMA1000643 | 24.259  | 51.698  | 115.511 | 47.881  | 17.554  | 52.330  | 16.308  | 38.448  |
| MAMMA1000646 | 72.487  | 111.121 | 22.868  | 9.213   | 27.074  | 81.604  | 46.859  | 34.048  |
| MAMMA1000652 | 152.920 | 94.568  | 319.943 | 76.610  | 67.817  | 87.605  | 41.747  | 77.720  |
| MAMMA1000657 | 116.830 | 41.097  | 278.504 | 38.131  | 36.289  | 67.327  | 34.224  | 32.593  |
| MAMMA1000664 | 48.908  | 37.993  | 133.863 | 26.712  | 16.308  | 21.135  | 14.102  | 35.215  |
| MAMMA1000667 | 77.285  | 24.312  | 99.732  | 25.027  | 29.493  | 43.769  | 22.193  | 24.502  |
| MAMMA1000668 | 42.561  | 28.100  | 54.970  | 17.454  | 18.336  | 50.398  | 38.233  | 26.553  |
| MAMMA1000669 | 22.797  | 14.382  | 57.803  | 14.670  | 6.337   | 12.841  | 7.392   | 12.088  |
| MAMMA1000670 | 66.748  | 22.566  | 46.836  | 26.498  | 25.826  | 33.332  | 38.768  | 39.130  |
| MAMMA1000672 | 128.331 | 25.209  | 67.913  | 35.262  | 28.783  | 64.713  | 38.934  | 40.592  |
| MAMMA1000681 | 66.397  | 40.677  | 32.249  | 14.404  | 13.181  | 26.710  | 30.054  | 37.369  |
| MAMMA1000684 | 85.908  | 107.381 | 66.100  | 35.992  | 32.881  | 41.006  | 36.719  | 77.834  |
| MAMMA1000696 | 165.293 | 107.442 | 551.458 | 130.714 | 88.510  | 70.985  | 43.857  | 55.551  |
| MAMMA1000702 | 82.316  | 25.689  | 52.797  | 22.639  | 22.884  | 48.899  | 39.297  | 29.636  |
| MAMMA1000706 | 81.416  | 25.442  | 34.529  | 20.432  | 15.562  | 39.909  | 33.303  | 25.371  |
| MAMMA1000707 | 128.277 | 17.100  | 51.835  | 15.001  | 33.473  | 48.628  | 46.555  | 24.075  |
| MAMMA1000713 | 75.263  | 59.677  | 109.995 | 37.970  | 23.975  | 33.874  | 30.149  | 39.491  |
| MAMMA1000714 | 228.366 | 288.017 | 246.261 | 56.045  | 25.380  | 80.480  | 51.219  | 64.589  |
| MAMMA1000718 | 98.208  | 92.149  | 245.750 | 79.940  | 49.064  | 50.180  | 40.223  | 49.032  |
| MAMMA1000720 | 158.737 | 111.227 | 446.586 | 101.175 | 73.612  | 78.021  | 29.904  | 60.252  |
| MAMMA1000723 | 64.930  | 49.053  | 148.286 | 40.276  | 28.806  | 19.434  | 18.845  | 24.784  |
| MAMMA1000731 | 31.516  | 11.357  | 68.834  | 12.436  | 11.755  | 7.989   | 7.536   | 7.367   |
| MAMMA1000732 | 121.291 | 56.513  | 230.064 | 68.746  | 51.582  | 53.763  | 35.440  | 49.335  |
| MAMMA1000733 | 24.525  | 14.171  | 58.717  | 16.852  | 7.153   | 14.100  | 8.586   | 10.632  |
| MAMMA1000734 | 113.011 | 127.466 | 142.152 | 102.345 | 44.860  | 84.456  | 43.098  | 98.011  |
| MAMMA1000736 | 142.978 | 48.490  | 130.520 | 34.595  | 40.252  | 73.418  | 82.810  | 69.461  |
| MAMMA1000738 | 110.304 | 61.504  | 28.831  | 38.642  | 18.942  | 31.735  | 48.926  | 35.128  |
| MAMMA1000744 | 140.264 | 94.669  | 281.287 | 76.261  | 79.000  | 63.977  | 43.557  | 40.380  |
| MAMMA1000746 | 26.385  | 50.110  | 37.264  | 16.895  | 10.790  | 35.280  | 3.177   | 11.010  |
| MAMMA1000748 | 73.879  | 36.619  | 52.587  | 30.957  | 36.810  | 46.899  | 25.359  | 24.846  |
| MAMMA1000751 | 42.505  | 27.882  | 58.087  | 44.924  | 28.537  | 43.075  | 32.581  | 61.052  |
| MAMMA1000752 | 55.785  | 55.799  | 193.100 | 53.436  | 25.798  | 29.655  | 21.969  | 44.384  |
| MAMMA1000757 | 314.709 | 210.647 | 536.246 | 187.416 | 161.327 | 151.926 | 112.625 | 152.076 |
| MAMMA1000760 | 218.937 | 178.377 | 534.346 | 131.736 | 100.173 | 95.443  | 58.158  | 91.220  |
| MAMMA1000761 | 147.993 | 73.793  | 349.399 | 85.319  | 65.436  | 75.180  | 43.310  | 63.428  |
| MAMMA1000775 | 75.873  | 25.684  | 170.040 | 34.150  | 30.063  | 20.938  | 15.825  | 18.992  |
| MAMMA1000776 | 101.206 | 81.986  | 253.211 | 57.436  | 51.043  | 51.597  | 28.394  | 33.452  |
| MAMMA1000778 | 71.839  | 47.596  | 214.100 | 42.749  | 28.124  | 29.701  | 17.866  | 26.497  |
| MAMMA1000781 | 67.901  | 30.437  | 97.580  | 26.658  | 23.265  | 29.056  | 17.488  | 26.972  |
| MAMMA1000782 | 286.062 | 65.796  | 174.951 | 84.753  | 88.062  | 151.891 | 90.446  | 85.369  |
| MAMMA1000784 | 135.655 | 91.366  | 264.154 | 67.248  | 65.127  | 26.625  | 29.991  | 78.501  |
| MAMMA1000788 | 143.478 | 49.979  | 98.983  | 34.503  | 30.600  | 55.026  | 29.032  | 46.210  |
| MAMMA1000798 | 62.822  | 41.315  | 139.860 | 37.055  | 26.873  | 27.100  | 11.942  | 32.539  |
| MAMMA1000802 | 132.633 | 86.328  | 341.638 | 76.811  | 64.234  | 64.772  | 38.532  | 61.561  |
| MAMMA1000810 | 150.779 | 88.200  | 372.241 | 99.538  | 80.592  | 81.887  | 42.150  | 57.891  |
| MAMMA1000813 | 31.571  | 14.636  | 31.497  | 9.531   | 9.356   | 14.627  | 12.633  | 10.718  |
| MAMMA1000814 | 197.602 | 134.253 | 279.885 | 107.679 | 82.142  | 99.046  | 64.626  | 62.091  |
| MAMMA1000824 | 65.693  | 21.602  | 64.020  | 38.421  | 35.405  | 29.268  | 31.671  | 38.813  |
| MAMMA1000827 | 146.098 | 70.894  | 157.448 | 47.656  | 39.428  | 44.524  | 33.051  | 44.519  |
| MAMMA1000831 | 55.332  | 19.954  | 29.847  | 13.557  | 9.407   | 21.580  | 16.602  | 6.497   |
| MAMMA1000838 | 39.583  | 28.962  | 39.815  | 28.681  | 49.251  | 39.669  | 14.663  | 19.273  |

Table 53

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | MAMMA1000839 | 157.898 | 138.792 | 503.964 | 113.084 | 86.648  | 85.964  | 57.386  | 102.963 |
|    | MAMMA1000841 | 44.843  | 37.288  | 50.074  | 28.351  | 19.319  | 37.537  | 13.012  | 20.655  |
| 5  | MAMMA1000842 | 174.347 | 36.747  | 169.008 | 44.926  | 48.610  | 78.492  | 50.804  | 35.389  |
|    | MAMMA1000843 | 8.643   | 4.650   | 14.084  | 4.758   | 2.185   | 6.547   | 5.283   | 1.757   |
|    | MAMMA1000845 | 40.044  | 33.955  | 33.012  | 21.488  | 15.747  | 23.310  | 17.728  | 15.607  |
|    | MAMMA1000851 | 197.033 | 79.321  | 307.054 | 96.446  | 73.025  | 75.853  | 98.526  | 72.039  |
|    | MAMMA1000854 | 66.648  | 33.221  | 63.298  | 17.429  | 20.157  | 33.288  | 22.320  | 21.685  |
|    | MAMMA1000855 | 10.264  | 4.185   | 17.702  | 3.794   | 3.995   | 2.454   | 9.158   | 3.568   |
| 10 | MAMMA1000856 | 186.269 | 40.945  | 84.561  | 27.973  | 38.378  | 82.629  | 60.529  | 25.726  |
|    | MAMMA1000859 | 64.234  | 121.939 | 60.662  | 34.958  | 42.945  | 39.557  | 20.320  | 33.032  |
|    | MAMMA1000862 | 40.107  | 21.345  | 23.693  | 16.808  | 28.277  | 22.661  | 14.238  | 14.693  |
|    | MAMMA1000863 | 98.576  | 70.285  | 234.956 | 67.796  | 55.216  | 72.466  | 36.802  | 70.885  |
|    | MAMMA1000865 | 1.106   | 0.000   | 0.000   | 0.000   | 2.321   | 0.000   | 0.000   | 0.000   |
|    | MAMMA1000867 | 46.228  | 24.216  | 64.376  | 21.736  | 17.699  | 18.758  | 10.742  | 6.964   |
| 15 | MAMMA1000875 | 124.814 | 80.537  | 231.558 | 88.627  | 57.015  | 82.859  | 46.826  | 53.611  |
|    | MAMMA1000876 | 87.475  | 36.523  | 94.191  | 19.763  | 21.466  | 42.434  | 27.201  | 24.439  |
|    | MAMMA1000877 | 201.968 | 107.716 | 538.232 | 164.333 | 86.827  | 114.380 | 80.171  | 97.872  |
|    | MAMMA1000878 | 99.671  | 67.833  | 257.022 | 71.323  | 29.066  | 47.487  | 36.714  | 37.365  |
|    | MAMMA1000880 | 76.396  | 60.884  | 153.335 | 45.836  | 17.649  | 44.996  | 19.238  | 35.353  |
|    | MAMMA1000881 | 63.646  | 33.072  | 177.731 | 43.034  | 30.410  | 31.086  | 12.184  | 38.045  |
| 20 | MAMMA1000883 | 71.807  | 24.931  | 43.109  | 16.630  | 18.675  | 40.320  | 44.419  | 55.440  |
|    | MAMMA1000897 | 88.466  | 0.000   | 7.404   | 0.000   | 0.000   | 0.000   | 0.000   | 0.721   |
|    | MAMMA1000898 | 380.818 | 62.977  | 134.846 | 45.311  | 63.221  | 164.332 | 122.071 | 52.933  |
|    | MAMMA1000905 | 97.555  | 63.528  | 161.117 | 57.777  | 42.205  | 50.312  | 28.216  | 42.710  |
|    | MAMMA1000906 | 57.788  | 33.146  | 125.096 | 29.019  | 13.531  | 29.380  | 16.982  | 14.930  |
|    | MAMMA1000908 | 30.597  | 19.222  | 40.351  | 11.584  | 5.445   | 10.392  | 13.469  | 11.612  |
|    | MAMMA1000911 | 9.952   | 29.425  | 3.998   | 9.963   | 1.886   | 7.419   | 5.350   | 126.406 |
| 25 | MAMMA1000914 | 82.184  | 23.137  | 69.228  | 20.659  | 18.111  | 35.329  | 22.616  | 18.859  |
|    | MAMMA1000920 | 92.123  | 62.032  | 37.206  | 16.675  | 15.550  | 47.235  | 47.680  | 26.801  |
|    | MAMMA1000921 | 107.169 | 69.026  | 207.821 | 102.347 | 60.403  | 64.787  | 35.902  | 77.424  |
|    | MAMMA1000931 | 211.796 | 140.234 | 424.498 | 95.390  | 40.229  | 51.643  | 49.349  | 95.211  |
|    | MAMMA1000940 | 145.411 | 82.982  | 268.876 | 70.972  | 55.532  | 61.420  | 51.119  | 60.328  |
|    | MAMMA1000941 | 182.800 | 134.847 | 509.857 | 131.193 | 79.478  | 106.717 | 53.292  | 91.187  |
| 30 | MAMMA1000942 | 195.078 | 123.131 | 446.428 | 117.435 | 68.234  | 90.801  | 63.506  | 75.814  |
|    | MAMMA1000943 | 196.926 | 99.988  | 558.754 | 109.551 | 89.006  | 81.092  | 51.063  | 85.539  |
|    | MAMMA1000952 | 161.019 | 97.081  | 355.265 | 78.330  | 98.779  | 104.172 | 79.021  | 96.980  |
|    | MAMMA1000956 | 43.741  | 16.217  | 14.918  | 11.103  | 5.840   | 41.230  | 24.471  | 6.893   |
|    | MAMMA1000957 | 95.532  | 53.066  | 225.645 | 64.794  | 42.610  | 47.323  | 34.337  | 45.567  |
|    | MAMMA1000962 | 281.600 | 192.048 | 781.968 | 204.962 | 120.611 | 123.900 | 84.354  | 140.995 |
| 35 | MAMMA1000966 | 151.087 | 157.558 | 417.591 | 111.282 | 64.746  | 81.685  | 51.694  | 78.953  |
|    | MAMMA1000968 | 217.975 | 107.043 | 313.251 | 58.469  | 41.964  | 45.044  | 41.392  | 63.998  |
|    | MAMMA1000972 | 18.150  | 48.148  | 119.482 | 22.427  | 18.041  | 15.672  | 12.870  | 33.135  |
|    | MAMMA1000973 | 36.667  | 18.879  | 24.787  | 11.758  | 12.527  | 19.441  | 17.828  | 22.312  |
|    | MAMMA1000975 | 44.972  | 19.058  | 38.995  | 20.137  | 30.793  | 22.864  | 65.817  | 45.398  |
|    | MAMMA1000976 | 122.625 | 67.075  | 216.981 | 70.671  | 60.470  | 91.475  | 60.614  | 81.173  |
| 40 | MAMMA1000979 | 81.812  | 102.452 | 145.415 | 68.435  | 53.443  | 56.902  | 38.749  | 89.759  |
|    | MAMMA1000986 | 118.211 | 39.368  | 239.204 | 68.513  | 49.208  | 56.431  | 42.354  | 94.152  |
|    | MAMMA1000987 | 81.466  | 50.679  | 249.660 | 43.686  | 35.580  | 49.753  | 23.004  | 41.997  |
|    | MAMMA1000988 | 150.907 | 68.191  | 242.562 | 63.946  | 34.252  | 81.162  | 48.528  | 86.723  |
|    | MAMMA1000994 | 101.984 | 21.000  | 41.248  | 21.154  | 26.136  | 49.152  | 44.373  | 50.523  |
|    | MAMMA1000998 | 166.669 | 75.193  | 367.111 | 91.202  | 105.673 | 107.213 | 56.957  | 84.216  |
|    | MAMMA1001003 | 73.580  | 37.252  | 146.092 | 47.279  | 34.315  | 35.674  | 26.101  | 59.032  |
| 45 | MAMMA1001007 | 3.055   | 0.000   | 5.547   | 0.000   | 1.411   | 3.633   | 0.800   | 0.000   |
|    | MAMMA1001008 | 40.892  | 31.048  | 65.220  | 38.501  | 74.831  | 38.859  | 47.979  | 31.121  |
|    | MAMMA1001013 | 135.486 | 126.855 | 372.544 | 93.280  | 57.270  | 56.674  | 44.237  | 52.328  |
|    | MAMMA1001014 | 85.681  | 25.361  | 77.414  | 32.516  | 25.227  | 20.809  | 35.346  | 16.624  |
|    | MAMMA1001021 | 93.867  | 49.224  | 180.659 | 41.205  | 34.542  | 34.975  | 35.352  | 29.726  |
|    | MAMMA1001024 | 141.736 | 49.918  | 229.735 | 52.670  | 41.069  | 54.541  | 41.726  | 36.711  |
| 50 | MAMMA1001025 | 13.661  | 8.964   | 12.310  | 5.843   | 13.733  | 6.698   | 4.305   | 5.091   |
|    | MAMMA1001028 | 36.353  | 24.719  | 14.061  | 10.363  | 34.518  | 16.233  | 15.746  | 11.316  |
|    | MAMMA1001030 | 33.596  | 27.602  | 35.295  | 20.296  | 15.861  | 14.989  | 25.031  | 23.535  |
|    | MAMMA1001035 | 235.880 | 125.555 | 517.898 | 181.208 | 139.149 | 129.655 | 96.375  | 134.509 |
|    | MAMMA1001036 | 133.350 | 45.689  | 152.344 | 60.632  | 47.114  | 60.433  | 40.803  | 40.973  |
| 55 | MAMMA1001037 | 180.875 | 100.457 | 403.651 | 52.277  | 55.761  | 72.026  | 38.313  | 51.826  |

Table 54

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | MAMMA1001038 | 26.248  | 12.160  | 150.692 | 32.729  | 5.309   | 10.436  | 15.903  | 27.263  |
|    | MAMMA1001041 | 113.237 | 27.602  | 43.846  | 32.708  | 45.924  | 47.820  | 46.929  | 16.614  |
| 5  | MAMMA1001043 | 218.483 | 23.847  | 68.163  | 22.306  | 10.449  | 41.046  | 45.779  | 31.087  |
|    | MAMMA1001050 | 157.361 | 80.096  | 220.216 | 71.548  | 69.197  | 49.684  | 13.493  | 49.872  |
|    | MAMMA1001054 | 102.456 | 62.728  | 134.003 | 63.324  | 43.343  | 21.184  | 38.007  | 39.478  |
|    | MAMMA1001059 | 136.357 | 48.942  | 59.998  | 52.931  | 26.061  | 111.283 | 69.714  | 40.010  |
|    | MAMMA1001066 | 387.798 | 103.377 | 293.890 | 140.850 | 119.334 | 176.295 | 158.563 | 60.324  |
|    | MAMMA1001067 | 82.327  | 39.420  | 127.017 | 37.076  | 29.891  | 30.670  | 19.782  | 14.257  |
| 10 | MAMMA1001072 | 150.398 | 31.601  | 52.273  | 21.983  | 32.143  | 57.421  | 47.051  | 26.375  |
|    | MAMMA1001073 | 101.957 | 23.218  | 17.217  | 11.406  | 43.228  | 24.053  | 24.142  | 5.176   |
|    | MAMMA1001074 | 104.201 | 41.827  | 240.332 | 94.124  | 56.071  | 89.717  | 16.387  | 14.966  |
|    | MAMMA1001075 | 32.081  | 34.601  | 23.705  | 29.782  | 21.196  | 23.184  | 14.757  | 17.497  |
|    | MAMMA1001078 | 102.185 | 111.402 | 317.478 | 75.869  | 35.841  | 49.660  | 67.285  | 67.244  |
|    | MAMMA1001080 | 367.248 | 210.764 | 130.259 | 89.003  | 81.982  | 186.406 | 141.739 | 266.507 |
| 15 | MAMMA1001082 | 50.264  | 39.773  | 20.039  | 17.602  | 43.163  | 26.358  | 17.452  | 14.352  |
|    | MAMMA1001091 | 3.576   | 11.403  | 27.522  | 0.000   | 18.321  | 4.593   | 0.000   | 0.000   |
|    | MAMMA1001092 | 50.554  | 25.306  | 48.577  | 16.425  | 15.153  | 18.849  | 11.524  | 4.155   |
|    | MAMMA1001094 | 353.180 | 72.506  | 112.379 | 42.145  | 78.386  | 130.368 | 113.824 | 62.964  |
|    | MAMMA1001105 | 138.777 | 111.226 | 113.121 | 82.426  | 80.960  | 45.158  | 16.891  | 45.652  |
|    | MAMMA1001110 | 15.141  | 8.661   | 7.407   | 3.823   | 5.537   | 6.280   | 3.216   | 4.392   |
| 20 | MAMMA1001126 | 299.120 | 223.060 | 683.480 | 194.522 | 164.920 | 119.375 | 96.413  | 88.784  |
|    | MAMMA1001133 | 243.826 | 187.024 | 529.603 | 144.907 | 119.301 | 111.573 | 67.515  | 94.605  |
|    | MAMMA1001139 | 291.212 | 867.784 | 447.960 | 473.187 | 227.579 | 348.627 | 121.382 | 173.640 |
|    | MAMMA1001141 | 36.320  | 18.295  | 40.066  | 9.930   | 5.202   | 26.277  | 16.337  | 13.996  |
|    | MAMMA1001143 | 163.308 | 70.387  | 153.588 | 67.249  | 59.919  | 67.023  | 43.805  | 40.903  |
|    | MAMMA1001145 | 110.718 | 43.148  | 141.067 | 30.890  | 31.851  | 11.000  | 10.119  | 13.322  |
| 25 | MAMMA1001150 | 80.076  | 29.005  | 50.289  | 15.249  | 7.495   | 33.674  | 48.052  | 22.629  |
|    | MAMMA1001154 | 203.206 | 129.777 | 429.878 | 121.700 | 90.014  | 77.333  | 45.155  | 71.154  |
|    | MAMMA1001159 | 46.847  | 28.763  | 19.301  | 13.704  | 8.444   | 23.404  | 21.664  | 24.248  |
|    | MAMMA1001161 | 185.601 | 233.229 | 485.605 | 141.151 | 109.607 | 107.154 | 96.161  | 79.043  |
|    | MAMMA1001162 | 196.299 | 51.198  | 67.587  | 29.962  | 40.684  | 78.949  | 43.247  | 18.714  |
|    | MAMMA1001181 | 116.505 | 35.688  | 88.127  | 33.728  | 40.701  | 41.280  | 16.749  | 26.312  |
| 30 | MAMMA1001186 | 155.118 | 85.120  | 303.506 | 69.532  | 51.017  | 85.296  | 42.211  | 48.082  |
|    | MAMMA1001189 | 60.587  | 31.052  | 16.618  | 30.386  | 22.337  | 29.809  | 50.065  | 54.044  |
|    | MAMMA1001191 | 120.521 | 18.093  | 41.909  | 22.249  | 21.661  | 39.122  | 50.157  | 24.623  |
|    | MAMMA1001198 | 229.338 | 561.556 | 755.924 | 695.028 | 205.811 | 536.623 | 412.766 | 746.035 |
|    | MAMMA1001202 | 322.950 | 274.854 | 664.569 | 248.672 | 218.550 | 168.136 | 144.829 | 179.567 |
|    | MAMMA1001203 | 170.551 | 101.121 | 330.599 | 85.243  | 72.915  | 53.390  | 44.564  | 52.183  |
| 35 | MAMMA1001206 | 132.103 | 114.504 | 202.256 | 65.195  | 71.217  | 61.327  | 43.601  | 48.988  |
|    | MAMMA1001208 | 55.417  | 28.101  | 30.608  | 21.282  | 25.686  | 27.394  | 20.016  | 15.433  |
|    | MAMMA1001215 | 199.721 | 123.016 | 194.852 | 82.919  | 72.839  | 87.841  | 68.245  | 60.078  |
|    | MAMMA1001220 | 223.133 | 154.557 | 404.346 | 110.968 | 91.387  | 74.073  | 58.534  | 62.841  |
|    | MAMMA1001222 | 5.585   | 4.936   | 6.763   | 1.952   | 0.474   | 2.171   | 20.800  | 5.022   |
|    | MAMMA1001223 | 94.809  | 29.294  | 42.345  | 15.601  | 20.861  | 20.316  | 32.446  | 15.726  |
|    | MAMMA1001232 | 130.199 | 45.692  | 227.125 | 47.671  | 38.837  | 45.692  | 59.906  | 32.862  |
| 40 | MAMMA1001234 | 129.344 | 27.935  | 227.692 | 95.815  | 64.344  | 61.799  | 49.210  | 34.673  |
|    | MAMMA1001237 | 29.560  | 11.083  | 23.224  | 7.241   | 4.489   | 20.199  | 16.883  | 11.003  |
|    | MAMMA1001243 | 20.832  | 11.598  | 47.127  | 7.253   | 32.689  | 20.073  | 7.954   | 6.544   |
|    | MAMMA1001244 | 44.925  | 10.751  | 11.473  | 9.770   | 11.102  | 14.902  | 16.779  | 4.470   |
|    | MAMMA1001249 | 43.758  | 23.671  | 15.616  | 19.023  | 10.556  | 26.846  | 10.975  | 13.758  |
|    | MAMMA1001256 | 169.303 | 81.917  | 266.686 | 187.649 | 131.656 | 44.850  | 55.325  | 59.786  |
| 45 | MAMMA1001259 | 70.213  | 24.036  | 18.445  | 18.447  | 25.202  | 45.289  | 34.303  | 19.546  |
|    | MAMMA1001260 | 154.426 | 64.153  | 81.115  | 52.438  | 46.566  | 80.874  | 64.937  | 87.761  |
|    | MAMMA1001262 | 153.326 | 53.618  | 54.054  | 40.354  | 54.252  | 66.416  | 134.449 | 25.835  |
|    | MAMMA1001268 | 97.760  | 53.539  | 146.494 | 47.068  | 42.826  | 34.360  | 20.976  | 28.286  |
|    | MAMMA1001271 | 305.116 | 66.364  | 106.518 | 32.761  | 65.392  | 128.314 | 130.796 | 39.913  |
|    | MAMMA1001274 | 73.329  | 94.857  | 235.488 | 85.814  | 64.385  | 71.860  | 51.097  | 62.114  |
| 50 | MAMMA1001280 | 66.399  | 17.595  | 13.218  | 9.853   | 3.831   | 37.015  | 12.303  | 6.374   |
|    | MAMMA1001283 | 145.535 | 67.060  | 129.301 | 56.055  | 38.490  | 56.397  | 52.661  | 34.076  |
|    | MAMMA1001284 | 253.434 | 60.199  | 204.903 | 48.739  | 63.272  | 100.485 | 93.658  | 76.590  |
|    | MAMMA1001286 | 86.284  | 38.290  | 49.421  | 32.175  | 40.490  | 57.666  | 59.470  | 32.210  |
|    | MAMMA1001289 | 169.737 | 90.053  | 62.200  | 32.142  | 102.670 | 66.398  | 64.913  | 47.082  |
|    | MAMMA1001292 | 103.898 | 20.400  | 28.796  | 15.498  | 31.006  | 29.378  | 26.545  | 31.970  |
| 55 | MAMMA1001296 | 225.022 | 173.717 | 324.251 | 133.662 | 60.125  | 88.173  | 70.926  | 89.316  |

Table 55

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | MAMMA1001298 | 80.876  | 60.189  | 230.669 | 38.485  | 32.838  | 36.675  | 27.032  | 27.836  |
|    | MAMMA1001305 | 153.258 | 67.563  | 147.529 | 36.286  | 31.766  | 65.281  | 41.627  | 30.730  |
| 5  | MAMMA1001309 | 6.490   | 8.306   | 6.534   | 3.627   | 4.269   | 0.000   | 5.861   | 6.705   |
|    | MAMMA1001310 | 148.253 | 53.093  | 165.786 | 46.753  | 41.171  | 63.488  | 82.639  | 54.927  |
|    | MAMMA1001322 | 20.005  | 14.809  | 29.403  | 19.332  | 11.227  | 14.549  | 14.163  | 15.700  |
|    | MAMMA1001324 | 82.605  | 28.652  | 85.996  | 52.506  | 31.339  | 47.688  | 30.365  | 20.779  |
|    | MAMMA1001330 | 180.949 | 117.040 | 245.119 | 52.680  | 15.121  | 97.891  | 81.121  | 27.980  |
|    | MAMMA1001333 | 101.707 | 75.972  | 213.812 | 59.950  | 49.965  | 59.640  | 32.340  | 37.307  |
| 10 | MAMMA1001334 | 156.564 | 108.340 | 81.315  | 64.901  | 34.949  | 73.570  | 65.555  | 73.287  |
|    | MAMMA1001337 | 105.507 | 35.111  | 33.563  | 17.119  | 20.426  | 44.148  | 21.930  | 33.068  |
|    | MAMMA1001341 | 100.751 | 32.100  | 79.257  | 23.788  | 38.019  | 38.614  | 42.286  | 29.671  |
|    | MAMMA1001343 | 128.875 | 95.425  | 301.822 | 74.316  | 77.337  | 85.437  | 18.963  | 98.899  |
|    | MAMMA1001344 | 32.880  | 35.930  | 40.648  | 21.963  | 23.320  | 30.315  | 16.394  | 27.074  |
|    | MAMMA1001346 | 49.749  | 17.537  | 51.635  | 21.147  | 20.480  | 22.107  | 26.805  | 24.306  |
| 15 | MAMMA1001383 | 202.565 | 186.453 | 597.532 | 117.676 | 100.238 | 103.083 | 68.993  | 76.274  |
|    | MAMMA1001388 | 149.105 | 66.100  | 213.624 | 45.488  | 52.686  | 66.868  | 85.346  | 57.974  |
|    | MAMMA1001396 | 197.435 | 81.919  | 430.433 | 80.848  | 94.812  | 95.399  | 75.293  | 90.889  |
|    | MAMMA1001397 | 116.167 | 86.809  | 175.125 | 67.323  | 58.676  | 56.833  | 61.558  | 52.233  |
|    | MAMMA1001401 | 101.761 | 72.090  | 194.999 | 62.960  | 48.162  | 57.422  | 73.403  | 78.023  |
|    | MAMMA1001408 | 62.875  | 17.757  | 62.603  | 9.779   | 13.557  | 44.301  | 11.008  | 20.408  |
| 20 | MAMMA1001411 | 271.344 | 54.507  | 67.489  | 20.558  | 68.557  | 157.085 | 134.884 | 38.338  |
|    | MAMMA1001414 | 74.836  | 21.511  | 88.459  | 27.219  | 20.603  | 32.791  | 16.798  | 25.126  |
|    | MAMMA1001415 | 207.635 | 38.228  | 51.690  | 26.716  | 68.700  | 89.184  | 99.527  | 41.848  |
|    | MAMMA1001418 | 103.090 | 36.102  | 91.976  | 39.234  | 28.949  | 27.016  | 31.339  | 23.195  |
|    | MAMMA1001419 | 106.299 | 52.357  | 210.943 | 52.570  | 45.256  | 41.351  | 37.624  | 25.914  |
|    | MAMMA1001420 | 133.835 | 25.587  | 149.981 | 15.816  | 19.703  | 28.670  | 26.323  | 15.896  |
| 25 | MAMMA1001426 | 265.539 | 180.062 | 165.308 | 87.320  | 89.096  | 170.869 | 109.848 | 84.772  |
|    | MAMMA1001428 | 310.313 | 180.134 | 229.960 | 136.337 | 147.398 | 262.499 | 135.345 | 83.047  |
|    | MAMMA1001432 | 266.375 | 107.317 | 387.676 | 86.786  | 60.159  | 83.974  | 37.205  | 60.775  |
|    | MAMMA1001435 | 99.596  | 48.079  | 193.151 | 53.623  | 27.154  | 41.869  | 30.388  | 39.835  |
|    | MAMMA1001442 | 103.071 | 100.872 | 193.544 | 78.030  | 54.054  | 54.359  | 43.164  | 50.728  |
|    | MAMMA1001446 | 180.367 | 105.551 | 197.748 | 98.484  | 72.694  | 46.485  | 39.641  | 61.589  |
| 30 | MAMMA1001450 | 67.785  | 51.961  | 68.660  | 34.362  | 32.591  | 32.211  | 28.904  | 9.424   |
|    | MAMMA1001452 | 180.732 | 124.244 | 432.438 | 115.549 | 111.829 | 104.153 | 92.517  | 96.081  |
|    | MAMMA1001465 | 528.588 | 255.549 | 770.820 | 359.206 | 364.762 | 388.404 | 209.219 | 264.053 |
|    | MAMMA1001476 | 33.639  | 19.551  | 25.289  | 5.909   | 17.988  | 24.584  | 26.252  | 17.981  |
|    | MAMMA1001478 | 117.183 | 61.333  | 147.393 | 46.785  | 39.649  | 32.143  | 33.776  | 40.723  |
|    | MAMMA1001479 | 156.131 | 59.931  | 31.646  | 28.808  | 44.671  | 62.901  | 69.911  | 26.759  |
| 35 | MAMMA1001487 | 67.613  | 53.042  | 92.480  | 34.978  | 30.928  | 40.427  | 27.489  | 11.238  |
|    | MAMMA1001498 | 96.522  | 111.213 | 222.159 | 50.813  | 14.811  | 23.385  | 56.209  | 28.054  |
|    | MAMMA1001501 | 216.969 | 55.879  | 84.459  | 38.369  | 49.731  | 88.169  | 43.395  | 32.036  |
|    | MAMMA1001502 | 124.674 | 57.815  | 131.281 | 46.452  | 43.478  | 54.854  | 34.762  | 36.860  |
|    | MAMMA1001510 | 27.993  | 7.591   | 13.577  | 10.197  | 11.745  | 6.993   | 14.922  | 8.048   |
|    | MAMMA1001522 | 56.601  | 24.819  | 109.236 | 27.569  | 21.472  | 26.994  | 29.481  | 17.416  |
|    | MAMMA1001529 | 83.190  | 23.330  | 52.489  | 20.883  | 31.879  | 41.170  | 29.923  | 20.596  |
| 40 | MAMMA1001532 | 47.058  | 33.575  | 98.780  | 33.881  | 17.641  | 23.522  | 25.583  | 30.896  |
|    | MAMMA1001533 | 97.390  | 40.032  | 30.146  | 22.218  | 20.573  | 25.298  | 46.390  | 16.233  |
|    | MAMMA1001534 | 0.341   | 0.000   | 0.000   | 0.000   | 0.608   | 6.274   | 0.000   | 0.000   |
|    | MAMMA1001535 | 32.482  | 21.042  | 23.902  | 24.788  | 14.317  | 27.839  | 5.277   | 10.537  |
|    | MAMMA1001547 | 122.717 | 75.842  | 186.325 | 45.519  | 46.073  | 43.338  | 36.590  | 24.860  |
|    | MAMMA1001551 | 103.124 | 52.282  | 155.615 | 43.540  | 38.692  | 47.685  | 20.767  | 32.781  |
| 45 | MAMMA1001569 | 47.916  | 19.726  | 56.549  | 24.376  | 18.319  | 34.666  | 36.128  | 11.381  |
|    | MAMMA1001575 | 137.304 | 30.090  | 50.539  | 31.981  | 29.095  | 50.896  | 55.992  | 33.156  |
|    | MAMMA1001576 | 355.571 | 57.322  | 87.851  | 39.259  | 62.142  | 115.580 | 85.589  | 39.636  |
|    | MAMMA1001584 | 59.860  | 30.398  | 60.438  | 23.526  | 24.246  | 30.161  | 16.694  | 22.305  |
|    | MAMMA1001586 | 6.157   | 32.887  | 0.000   | 2.133   | 1.210   | 6.758   | 2.949   | 4.371   |
|    | MAMMA1001590 | 150.616 | 76.439  | 214.250 | 84.714  | 45.244  | 67.639  | 37.913  | 52.869  |
| 50 | MAMMA1001599 | 40.717  | 29.889  | 37.283  | 14.016  | 19.295  | 24.401  | 27.880  | 19.119  |
|    | MAMMA1001600 | 109.112 | 32.647  | 49.324  | 13.148  | 24.411  | 44.599  | 35.258  | 20.344  |
|    | MAMMA1001604 | 153.185 | 34.765  | 63.275  | 52.861  | 9.643   | 15.339  | 24.456  | 16.253  |
|    | MAMMA1001606 | 217.088 | 99.469  | 248.919 | 91.848  | 90.788  | 88.574  | 79.192  | 78.377  |
|    | MAMMA1001609 | 64.637  | 23.619  | 74.281  | 18.302  | 10.063  | 9.100   | 19.011  | 13.860  |
|    | MAMMA1001614 | 74.839  | 29.828  | 9.202   | 11.550  | 18.036  | 35.992  | 21.716  | 14.483  |
| 55 | MAMMA1001615 | 71.970  | 10.164  | 10.048  | 11.622  | 4.999   | 35.674  | 12.056  | 11.852  |

Table 56

|    |              |         |         |         |         |         |         |         |          |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|----------|
|    | MAMMA1001619 | 361.714 | 66.104  | 138.945 | 35.137  | 88.004  | 177.280 | 155.721 | 44.365   |
|    | MAMMA1001620 | 113.233 | 68.799  | 320.014 | 88.182  | 65.387  | 62.891  | 47.797  | 49.428   |
| 5  | MAMMA1001623 | 32.719  | 16.493  | 22.246  | 8.396   | 13.561  | 16.233  | 7.490   | 7.940    |
|    | MAMMA1001626 | 75.279  | 8.514   | 13.728  | 10.774  | 12.665  | 56.613  | 57.493  | 6.962    |
|    | MAMMA1001627 | 28.468  | 7.652   | 39.356  | 8.734   | 4.064   | 8.190   | 14.443  | 7.576    |
|    | MAMMA1001630 | 36.419  | 36.649  | 115.287 | 20.971  | 7.371   | 8.511   | 10.371  | 16.570   |
|    | MAMMA1001633 | 77.945  | 25.597  | 143.786 | 22.273  | 51.279  | 40.689  | 37.952  | 19.350   |
|    | MAMMA1001634 | 132.937 | 95.570  | 297.140 | 83.974  | 56.835  | 62.263  | 58.952  | 66.333   |
| 10 | MAMMA1001635 | 140.754 | 47.359  | 225.161 | 34.126  | 24.717  | 38.086  | 34.792  | 34.698   |
|    | MAMMA1001649 | 30.569  | 12.321  | 20.513  | 11.727  | 13.713  | 19.299  | 12.550  | 9.106    |
|    | MAMMA1001654 | 150.282 | 91.691  | 90.096  | 34.969  | 64.959  | 66.853  | 62.712  | 58.197   |
|    | MAMMA1001660 | 133.470 | 97.805  | 42.199  | 61.020  | 54.089  | 65.813  | 66.019  | 54.874   |
|    | MAMMA1001663 | 394.964 | 202.523 | 572.820 | 154.372 | 162.177 | 148.843 | 118.542 | 79.262   |
|    | MAMMA1001670 | 109.171 | 38.230  | 119.077 | 31.362  | 18.030  | 43.797  | 53.194  | 28.426   |
| 15 | MAMMA1001671 | 145.809 | 21.188  | 31.621  | 20.983  | 11.973  | 13.009  | 10.867  | 8.816    |
|    | MAMMA1001679 | 74.490  | 17.313  | 20.426  | 10.837  | 8.375   | 23.180  | 9.271   | 18.786   |
|    | MAMMA1001683 | 147.044 | 87.078  | 260.375 | 71.605  | 39.630  | 48.331  | 49.633  | 41.012   |
|    | MAMMA1001686 | 12.824  | 14.464  | 46.223  | 12.860  | 21.575  | 12.528  | 5.274   | 9.906    |
|    | MAMMA1001688 | 290.960 | 584.756 | 484.182 | 407.762 | 105.060 | 319.616 | 241.392 | 1824.687 |
|    | MAMMA1001689 | 74.686  | 28.294  | 39.725  | 20.248  | 8.261   | 19.721  | 31.387  | 18.923   |
| 20 | MAMMA1001692 | 90.375  | 64.474  | 198.053 | 56.976  | 35.470  | 19.914  | 16.899  | 28.825   |
|    | MAMMA1001711 | 111.425 | 82.300  | 189.195 | 30.269  | 36.663  | 51.227  | 10.898  | 27.229   |
|    | MAMMA1001715 | 67.545  | 40.330  | 71.553  | 28.616  | 19.372  | 25.019  | 24.223  | 13.907   |
|    | MAMMA1001730 | 33.925  | 17.096  | 21.837  | 11.464  | 4.477   | 36.743  | 11.375  | 8.587    |
|    | MAMMA1001735 | 79.384  | 42.172  | 38.240  | 23.675  | 25.390  | 20.932  | 27.963  | 11.313   |
|    | MAMMA1001740 | 100.894 | 25.218  | 94.454  | 17.836  | 17.794  | 23.366  | 21.945  | 16.107   |
|    | MAMMA1001743 | 199.112 | 118.364 | 141.535 | 72.049  | 46.384  | 86.104  | 96.828  | 100.038  |
| 25 | MAMMA1001744 | 23.256  | 20.454  | 0.000   | 2.086   | 2.551   | 2.098   | 5.703   | 0.000    |
|    | MAMMA1001745 | 121.679 | 94.047  | 301.292 | 106.455 | 100.677 | 125.697 | 46.388  | 55.894   |
|    | MAMMA1001751 | 58.670  | 37.967  | 90.572  | 30.921  | 14.618  | 26.060  | 33.416  | 32.380   |
|    | MAMMA1001752 | 284.221 | 89.024  | 175.680 | 74.746  | 86.008  | 159.864 | 103.908 | 99.685   |
|    | MAMMA1001754 | 57.620  | 30.193  | 53.390  | 14.833  | 35.182  | 39.454  | 17.523  | 12.754   |
|    | MAMMA1001757 | 14.456  | 8.290   | 7.632   | 7.247   | 6.076   | 15.580  | 5.382   | 5.641    |
| 30 | MAMMA1001760 | 283.527 | 155.103 | 596.815 | 118.229 | 106.868 | 115.717 | 105.154 | 147.707  |
|    | MAMMA1001764 | 33.825  | 15.661  | 33.885  | 14.429  | 5.043   | 11.697  | 22.420  | 16.539   |
|    | MAMMA1001767 | 41.791  | 27.578  | 112.242 | 22.484  | 21.848  | 16.357  | 11.576  | 9.367    |
|    | MAMMA1001768 | 50.861  | 34.645  | 129.707 | 25.692  | 23.037  | 24.674  | 27.811  | 11.075   |
|    | MAMMA1001769 | 206.737 | 82.818  | 645.195 | 110.913 | 102.640 | 105.607 | 80.653  | 102.144  |
|    | MAMMA1001771 | 123.973 | 30.551  | 49.772  | 16.877  | 55.099  | 52.348  | 41.113  | 48.806   |
| 35 | MAMMA1001773 | 47.743  | 27.204  | 35.277  | 8.450   | 18.002  | 17.141  | 23.713  | 30.755   |
|    | MAMMA1001778 | 104.585 | 49.619  | 92.589  | 42.249  | 35.085  | 50.584  | 39.215  | 26.862   |
|    | MAMMA1001783 | 140.821 | 89.274  | 371.095 | 82.231  | 85.003  | 87.248  | 61.999  | 71.448   |
|    | MAMMA1001785 | 119.072 | 65.819  | 256.400 | 60.491  | 37.351  | 65.802  | 45.875  | 54.652   |
|    | MAMMA1001788 | 37.967  | 8.305   | 25.708  | 9.749   | 9.870   | 11.494  | 13.172  | 10.408   |
|    | MAMMA1001790 | 202.092 | 181.258 | 279.482 | 57.700  | 22.737  | 29.284  | 28.819  | 46.106   |
| 40 | MAMMA1001800 | 24.282  | 11.444  | 30.466  | 12.517  | 1.763   | 8.501   | 13.065  | 25.671   |
|    | MAMMA1001804 | 150.744 | 16.771  | 51.213  | 14.975  | 33.630  | 67.533  | 64.799  | 20.701   |
|    | MAMMA1001806 | 62.312  | 54.896  | 146.142 | 37.371  | 11.402  | 36.501  | 43.675  | 52.846   |
|    | MAMMA1001812 | 17.002  | 11.569  | 32.023  | 10.166  | 5.995   | 9.576   | 10.245  | 11.255   |
|    | MAMMA1001815 | 50.743  | 27.272  | 61.778  | 19.704  | 15.636  | 25.863  | 15.187  | 22.130   |
|    | MAMMA1001817 | 10.653  | 7.578   | 15.446  | 7.044   | 7.758   | 3.611   | 7.974   | 11.601   |
|    | MAMMA1001818 | 48.733  | 19.657  | 87.193  | 21.647  | 18.566  | 18.770  | 19.255  | 18.678   |
| 45 | MAMMA1001819 | 165.340 | 99.233  | 343.318 | 111.523 | 112.261 | 57.848  | 73.268  | 87.725   |
|    | MAMMA1001820 | 48.662  | 22.951  | 34.879  | 16.243  | 11.743  | 9.468   | 15.897  | 11.396   |
|    | MAMMA1001824 | 125.683 | 53.824  | 187.383 | 58.214  | 53.691  | 47.999  | 45.347  | 37.548   |
|    | MAMMA1001832 | 56.633  | 30.370  | 42.082  | 21.957  | 23.518  | 23.996  | 20.046  | 8.482    |
|    | MAMMA1001836 | 128.477 | 58.280  | 179.541 | 45.913  | 43.465  | 44.952  | 56.814  | 24.346   |
|    | MAMMA1001837 | 118.428 | 66.031  | 172.658 | 60.299  | 38.153  | 37.090  | 17.947  | 50.301   |
| 50 | MAMMA1001848 | 42.562  | 27.622  | 82.759  | 24.693  | 20.435  | 22.941  | 15.102  | 19.124   |
|    | MAMMA1001850 | 402.506 | 243.182 | 312.586 | 171.182 | 143.034 | 232.615 | 91.466  | 106.637  |
|    | MAMMA1001851 | 123.305 | 30.035  | 69.870  | 64.763  | 41.560  | 39.454  | 33.329  | 45.924   |
|    | MAMMA1001852 | 198.774 | 161.311 | 321.896 | 118.228 | 133.655 | 112.820 | 91.724  | 115.602  |
|    | MAMMA1001854 | 158.894 | 117.462 | 234.984 | 44.823  | 77.240  | 42.929  | 39.634  | 45.321   |
|    | MAMMA1001858 | 148.310 | 133.834 | 240.344 | 51.820  | 24.063  | 35.871  | 73.151  | 58.279   |
| 55 |              |         |         |         |         |         |         |         |          |

Table 57

|              |         |         |         |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| MAMMA1001864 | 169.742 | 52.389  | 185.785 | 37.880  | 50.896  | 67.999  | 55.272  | 23.142  |
| MAMMA1001868 | 82.643  | 56.439  | 59.491  | 62.418  | 34.438  | 47.003  | 29.588  | 35.585  |
| MAMMA1001874 | 9.192   | 9.651   | 51.178  | 7.405   | 11.275  | 9.054   | 7.189   | 10.453  |
| MAMMA1001878 | 190.515 | 70.315  | 227.600 | 164.835 | 101.886 | 72.219  | 79.645  | 146.982 |
| MAMMA1001880 | 159.918 | 94.489  | 292.528 | 95.467  | 48.528  | 98.588  | 39.271  | 81.114  |
| MAMMA1001885 | 117.729 | 44.975  | 110.656 | 53.460  | 26.142  | 52.223  | 41.423  | 29.156  |
| MAMMA1001890 | 127.969 | 47.712  | 247.654 | 60.558  | 29.367  | 36.838  | 39.109  | 41.483  |
| MAMMA1001893 | 90.120  | 22.271  | 50.435  | 19.070  | 23.222  | 27.783  | 36.643  | 18.711  |
| MAMMA1001901 | 78.854  | 67.274  | 188.894 | 57.356  | 38.856  | 45.633  | 22.050  | 26.367  |
| MAMMA1001907 | 159.767 | 70.062  | 305.846 | 76.004  | 91.563  | 25.690  | 68.288  | 28.595  |
| MAMMA1001908 | 44.964  | 27.928  | 41.967  | 55.852  | 40.219  | 53.008  | 32.123  | 40.375  |
| MAMMA1001919 | 0.000   | 82.865  | 12.109  | 0.000   | 2.270   | 0.000   | 0.000   | 5.175   |
| MAMMA1001931 | 59.705  | 9.869   | 29.213  | 49.582  | 13.981  | 18.165  | 29.466  | 11.467  |
| MAMMA1001937 | 47.045  | 26.453  | 33.302  | 16.535  | 17.844  | 31.265  | 29.899  | 19.650  |
| MAMMA1001951 | 114.033 | 76.574  | 311.618 | 70.531  | 55.661  | 40.552  | 39.990  | 40.224  |
| MAMMA1001956 | 171.199 | 78.116  | 295.630 | 76.171  | 65.654  | 47.426  | 67.568  | 57.411  |
| MAMMA1001957 | 114.304 | 40.789  | 155.366 | 46.819  | 41.429  | 43.671  | 26.153  | 26.982  |
| MAMMA1001960 | 99.822  | 63.449  | 192.955 | 55.422  | 57.938  | 23.395  | 42.027  | 44.844  |
| MAMMA1001963 | 6.938   | 3.651   | 9.748   | 3.671   | 3.337   | 0.000   | 0.000   | 5.275   |
| MAMMA1001969 | 237.109 | 164.919 | 517.768 | 178.594 | 149.500 | 109.284 | 97.612  | 137.120 |
| MAMMA1001970 | 199.358 | 123.085 | 297.080 | 101.158 | 41.691  | 71.806  | 71.685  | 61.125  |
| MAMMA1001978 | 1.206   | 0.000   | 0.000   | 0.000   | 1.081   | 1.561   | 0.000   | 0.000   |
| MAMMA1001992 | 189.502 | 91.630  | 283.440 | 78.807  | 70.640  | 63.218  | 71.282  | 32.898  |
| MAMMA1001994 | 85.231  | 21.385  | 143.259 | 40.178  | 38.484  | 54.686  | 24.893  | 33.837  |
| MAMMA1002008 | 66.834  | 77.793  | 37.647  | 14.813  | 20.016  | 33.334  | 39.365  | 10.388  |
| MAMMA1002009 | 144.462 | 65.030  | 407.911 | 107.350 | 55.438  | 47.107  | 40.434  | 57.138  |
| MAMMA1002011 | 32.832  | 13.901  | 27.624  | 10.188  | 19.701  | 17.344  | 22.354  | 14.449  |
| MAMMA1002022 | 107.727 | 67.057  | 159.576 | 65.640  | 59.239  | 37.381  | 36.122  | 50.747  |
| MAMMA1002024 | 176.885 | 70.125  | 207.390 | 72.614  | 55.279  | 78.953  | 108.945 | 46.948  |
| MAMMA1002032 | 270.523 | 130.983 | 362.313 | 98.620  | 95.826  | 104.970 | 73.966  | 83.780  |
| MAMMA1002033 | 132.652 | 119.984 | 303.660 | 81.264  | 93.758  | 74.391  | 34.919  | 49.831  |
| MAMMA1002041 | 19.611  | 15.313  | 18.901  | 14.070  | 10.859  | 15.705  | 11.098  | 10.476  |
| MAMMA1002042 | 78.700  | 42.958  | 161.397 | 37.566  | 30.208  | 55.486  | 24.562  | 23.890  |
| MAMMA1002045 | 7.131   | 8.948   | 24.018  | 14.459  | 14.811  | 11.172  | 1.533   | 10.371  |
| MAMMA1002047 | 82.875  | 57.343  | 192.240 | 55.806  | 45.781  | 34.315  | 27.824  | 37.210  |
| MAMMA1002056 | 212.189 | 152.323 | 474.785 | 146.238 | 94.617  | 84.218  | 104.806 | 75.923  |
| MAMMA1002058 | 149.112 | 126.148 | 334.116 | 98.541  | 74.809  | 81.670  | 44.227  | 65.825  |
| MAMMA1002060 | 13.278  | 7.931   | 14.514  | 12.643  | 5.782   | 6.917   | 16.902  | 5.536   |
| MAMMA1002065 | 128.185 | 46.405  | 127.810 | 82.855  | 59.107  | 72.737  | 63.052  | 39.667  |
| MAMMA1002068 | 110.652 | 64.982  | 163.753 | 51.583  | 45.893  | 40.656  | 37.400  | 24.128  |
| MAMMA1002070 | 61.186  | 24.791  | 29.988  | 16.102  | 15.306  | 31.362  | 22.002  | 21.338  |
| MAMMA1002078 | 170.197 | 38.633  | 93.014  | 30.633  | 33.682  | 90.533  | 42.110  | 14.299  |
| MAMMA1002080 | 21.195  | 14.596  | 12.646  | 10.208  | 14.094  | 14.792  | 10.377  | 10.263  |
| MAMMA1002082 | 111.870 | 77.716  | 117.819 | 55.009  | 54.940  | 28.457  | 25.946  | 21.254  |
| MAMMA1002084 | 74.297  | 40.086  | 152.790 | 30.118  | 30.052  | 28.788  | 24.428  | 24.140  |
| MAMMA1002087 | 17.991  | 17.619  | 30.479  | 8.932   | 13.026  | 13.365  | 9.996   | 6.344   |
| MAMMA1002091 | 78.604  | 26.611  | 41.258  | 17.086  | 26.812  | 39.757  | 46.803  | 27.660  |
| MAMMA1002093 | 17.498  | 0.000   | 5.942   | 5.592   | 5.630   | 8.103   | 11.278  | 4.689   |
| MAMMA1002095 | 78.790  | 13.430  | 22.728  | 13.058  | 20.650  | 32.157  | 32.621  | 8.152   |
| MAMMA1002108 | 91.919  | 6.035   | 31.027  | 13.639  | 7.939   | 32.486  | 27.923  | 11.735  |
| MAMMA1002112 | 24.376  | 27.337  | 10.667  | 11.574  | 5.250   | 15.678  | 14.329  | 37.463  |
| MAMMA1002118 | 12.060  | 5.100   | 8.756   | 5.943   | 6.502   | 7.856   | 7.396   | 3.149   |
| MAMMA1002119 | 122.271 | 36.908  | 59.513  | 20.581  | 36.895  | 38.172  | 39.046  | 32.476  |
| MAMMA1002125 | 159.277 | 83.844  | 373.786 | 60.523  | 54.991  | 63.367  | 35.366  | 35.797  |
| MAMMA1002126 | 231.380 | 139.298 | 431.047 | 153.496 | 117.027 | 84.728  | 70.558  | 62.381  |
| MAMMA1002128 | 102.647 | 35.864  | 48.863  | 19.098  | 20.911  | 44.235  | 39.193  | 25.406  |
| MAMMA1002132 | 226.752 | 118.230 | 198.712 | 79.589  | 88.860  | 84.266  | 50.630  | 48.550  |
| MAMMA1002140 | 54.642  | 53.227  | 115.593 | 42.121  | 33.524  | 31.026  | 24.905  | 32.121  |
| MAMMA1002142 | 121.646 | 33.612  | 49.214  | 19.085  | 27.295  | 103.698 | 68.348  | 39.850  |
| MAMMA1002143 | 150.595 | 15.368  | 78.681  | 38.118  | 5.895   | 13.974  | 10.806  | 45.937  |
| MAMMA1002145 | 237.202 | 72.397  | 165.166 | 45.537  | 53.986  | 87.872  | 73.605  | 22.437  |
| MAMMA1002147 | 73.366  | 34.088  | 45.076  | 27.984  | 33.648  | 53.571  | 33.082  | 8.766   |
| MAMMA1002153 | 133.485 | 74.073  | 143.431 | 55.132  | 46.673  | 85.911  | 25.126  | 19.099  |
| MAMMA1002155 | 320.181 | 146.275 | 552.191 | 86.240  | 120.874 | 124.338 | 93.185  | 96.378  |

Table 58

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|              |         |         |         |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| MAMMA1002156 | 3.612   | 2.088   | 14.013  | 0.880   | 0.000   | 0.000   | 0.000   | 0.554   |
| MAMMA1002158 | 70.916  | 40.655  | 88.575  | 24.125  | 14.786  | 21.144  | 21.721  | 31.526  |
| MAMMA1002164 | 109.211 | 29.584  | 54.163  | 32.089  | 28.633  | 66.844  | 29.378  | 23.138  |
| MAMMA1002165 | 166.029 | 111.787 | 135.468 | 73.710  | 66.970  | 77.137  | 88.540  | 53.125  |
| MAMMA1002170 | 0.000   | 0.000   | 0.000   | 1.159   | 0.000   | 0.000   | 0.000   | 0.000   |
| MAMMA1002174 | 139.902 | 178.299 | 326.262 | 182.252 | 147.225 | 141.399 | 87.695  | 71.650  |
| MAMMA1002175 | 49.635  | 20.661  | 21.290  | 16.108  | 13.918  | 22.449  | 12.876  | 18.564  |
| MAMMA1002180 | 117.470 | 55.089  | 69.154  | 18.969  | 36.764  | 45.946  | 59.721  | 45.237  |
| MAMMA1002198 | 123.227 | 67.539  | 235.488 | 54.699  | 51.835  | 48.796  | 31.324  | 62.413  |
| MAMMA1002205 | 114.861 | 63.437  | 420.688 | 47.331  | 61.775  | 61.499  | 42.296  | 74.029  |
| MAMMA1002206 | 86.539  | 30.665  | 50.318  | 17.788  | 32.139  | 63.320  | 64.272  | 56.392  |
| MAMMA1002209 | 124.961 | 73.557  | 143.211 | 32.601  | 43.486  | 64.448  | 43.661  | 36.987  |
| MAMMA1002215 | 446.836 | 148.590 | 401.477 | 150.983 | 162.248 | 310.059 | 210.563 | 225.764 |
| MAMMA1002219 | 103.054 | 68.338  | 110.047 | 29.595  | 35.094  | 50.008  | 34.183  | 47.670  |
| MAMMA1002224 | 155.329 | 135.036 | 325.596 | 92.243  | 139.113 | 54.888  | 50.692  | 104.338 |
| MAMMA1002229 | 54.055  | 19.297  | 24.594  | 8.408   | 18.280  | 19.024  | 14.880  | 18.482  |
| MAMMA1002230 | 131.172 | 96.706  | 345.936 | 76.632  | 50.164  | 62.315  | 35.205  | 65.871  |
| MAMMA1002233 | 40.299  | 20.503  | 27.780  | 14.645  | 13.380  | 24.157  | 18.866  | 16.294  |
| MAMMA1002234 | 16.951  | 13.815  | 19.460  | 7.251   | 4.128   | 10.631  | 13.812  | 19.438  |
| MAMMA1002236 | 50.642  | 23.653  | 50.683  | 14.162  | 51.817  | 24.897  | 29.324  | 44.837  |
| MAMMA1002243 | 88.955  | 30.943  | 38.127  | 26.451  | 21.889  | 37.268  | 32.369  | 10.849  |
| MAMMA1002250 | 101.569 | 23.851  | 171.031 | 56.513  | 74.300  | 48.863  | 11.431  | 66.114  |
| MAMMA1002253 | 515.165 | 161.871 | 322.750 | 80.630  | 175.660 | 370.878 | 217.429 | 157.156 |
| MAMMA1002267 | 129.167 | 239.800 | 180.046 | 95.357  | 56.654  | 98.387  | 72.076  | 331.998 |
| MAMMA1002268 | 36.456  | 16.771  | 39.216  | 17.501  | 24.043  | 16.873  | 20.704  | 13.929  |
| MAMMA1002269 | 27.848  | 6.625   | 13.419  | 16.093  | 10.154  | 9.666   | 6.915   | 4.635   |
| MAMMA1002282 | 53.648  | 58.269  | 178.298 | 38.160  | 60.059  | 34.106  | 22.977  | 37.892  |
| MAMMA1002292 | 62.491  | 17.873  | 48.526  | 22.803  | 16.647  | 14.012  | 30.027  | 30.270  |
| MAMMA1002293 | 236.280 | 162.513 | 481.000 | 154.526 | 85.449  | 104.060 | 60.152  | 54.729  |
| MAMMA1002294 | 110.705 | 24.664  | 124.002 | 36.492  | 33.138  | 43.853  | 25.143  | 19.816  |
| MAMMA1002297 | 66.424  | 40.774  | 88.229  | 32.940  | 16.126  | 21.061  | 14.524  | 17.505  |
| MAMMA1002298 | 104.368 | 30.772  | 64.493  | 24.071  | 29.853  | 40.308  | 35.653  | 29.912  |
| MAMMA1002299 | 102.764 | 41.185  | 67.139  | 29.656  | 30.944  | 33.813  | 19.722  | 23.248  |
| MAMMA1002308 | 69.299  | 30.798  | 86.503  | 30.668  | 29.756  | 27.771  | 17.935  | 16.223  |
| MAMMA1002310 | 494.257 | 272.509 | 645.571 | 186.568 | 219.463 | 344.867 | 183.571 | 203.149 |
| MAMMA1002311 | 151.653 | 60.941  | 315.707 | 69.190  | 66.700  | 63.609  | 50.563  | 40.723  |
| MAMMA1002312 | 79.548  | 36.483  | 113.839 | 34.110  | 19.878  | 36.852  | 19.114  | 16.993  |
| MAMMA1002317 | 96.094  | 32.026  | 188.632 | 45.170  | 46.365  | 46.409  | 41.391  | 20.920  |
| MAMMA1002319 | 141.320 | 69.599  | 218.472 | 74.218  | 50.463  | 59.927  | 44.261  | 42.418  |
| MAMMA1002322 | 144.393 | 65.401  | 253.730 | 67.857  | 46.931  | 25.375  | 51.002  | 44.826  |
| MAMMA1002329 | 49.002  | 17.163  | 28.349  | 17.067  | 21.239  | 27.218  | 20.223  | 13.611  |
| MAMMA1002332 | 55.840  | 30.915  | 137.766 | 47.492  | 35.312  | 32.956  | 23.130  | 16.413  |
| MAMMA1002333 | 75.478  | 17.882  | 32.309  | 19.280  | 28.576  | 31.145  | 41.629  | 17.637  |
| MAMMA1002335 | 171.866 | 50.373  | 149.587 | 54.778  | 40.367  | 18.695  | 38.972  | 26.410  |
| MAMMA1002339 | 91.741  | 62.618  | 152.049 | 63.915  | 53.097  | 48.035  | 33.591  | 31.797  |
| MAMMA1002347 | 98.915  | 55.800  | 120.784 | 40.650  | 55.929  | 33.327  | 45.235  | 27.501  |
| MAMMA1002351 | 70.045  | 22.016  | 35.600  | 18.333  | 20.122  | 33.583  | 21.722  | 19.631  |
| MAMMA1002352 | 52.143  | 17.786  | 22.690  | 23.089  | 12.412  | 24.411  | 13.818  | 11.949  |
| MAMMA1002353 | 128.336 | 52.785  | 144.030 | 46.481  | 46.561  | 36.806  | 12.132  | 34.575  |
| MAMMA1002355 | 46.995  | 34.505  | 123.684 | 29.737  | 22.025  | 29.352  | 6.766   | 22.664  |
| MAMMA1002356 | 40.901  | 21.732  | 86.932  | 22.189  | 25.451  | 22.826  | 13.215  | 18.951  |
| MAMMA1002359 | 276.825 | 92.529  | 330.418 | 168.428 | 142.084 | 59.794  | 89.656  | 51.182  |
| MAMMA1002360 | 42.725  | 25.740  | 47.382  | 16.661  | 18.409  | 9.982   | 9.481   | 12.121  |
| MAMMA1002361 | 152.118 | 88.131  | 201.317 | 50.907  | 41.767  | 51.778  | 26.886  | 27.245  |
| MAMMA1002362 | 39.281  | 22.692  | 119.094 | 21.154  | 14.517  | 23.579  | 14.318  | 19.590  |
| MAMMA1002367 | 142.262 | 75.867  | 50.909  | 48.285  | 31.065  | 65.479  | 60.201  | 210.780 |
| MAMMA1002371 | 119.755 | 66.644  | 278.090 | 138.658 | 42.317  | 49.599  | 32.494  | 49.257  |
| MAMMA1002380 | 90.587  | 47.691  | 161.106 | 38.559  | 31.139  | 36.350  | 34.696  | 25.229  |
| MAMMA1002384 | 90.935  | 85.538  | 249.278 | 71.113  | 46.508  | 40.126  | 29.975  | 44.417  |
| MAMMA1002385 | 13.712  | 7.306   | 6.051   | 7.420   | 3.720   | 9.699   | 8.116   | 7.609   |
| MAMMA1002390 | 119.086 | 26.468  | 66.535  | 12.989  | 40.464  | 53.956  | 37.080  | 19.518  |
| MAMMA1002392 | 90.573  | 32.273  | 97.224  | 19.547  | 21.438  | 26.503  | 20.868  | 14.255  |
| MAMMA1002396 | 167.171 | 132.603 | 370.476 | 113.135 | 82.112  | 77.745  | 28.921  | 53.900  |
| MAMMA1002399 | 73.011  | 45.586  | 115.522 | 33.773  | 19.180  | 17.808  | 26.587  | 22.269  |



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Table 59

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | MAMMA1002400 | 10.797  | 7.113   | 11.587  | 4.041   | 5.847   | 4.732   | 4.516   | 4.194   |
|    | MAMMA1002409 | 93.810  | 75.886  | 50.232  | 41.725  | 30.159  | 43.673  | 520.771 | 70.327  |
| 5  | MAMMA1002411 | 81.111  | 34.713  | 76.973  | 23.185  | 26.301  | 31.997  | 16.726  | 11.902  |
|    | MAMMA1002413 | 199.066 | 68.034  | 377.354 | 55.454  | 56.059  | 50.318  | 26.763  | 38.961  |
|    | MAMMA1002417 | 30.976  | 26.195  | 58.136  | 15.593  | 17.649  | 14.266  | 7.765   | 11.383  |
|    | MAMMA1002427 | 87.721  | 47.715  | 208.629 | 48.123  | 38.391  | 40.117  | 26.156  | 31.585  |
|    | MAMMA1002428 | 108.360 | 83.671  | 293.146 | 88.263  | 84.156  | 51.786  | 57.518  | 57.126  |
|    | MAMMA1002433 | 90.843  | 23.726  | 38.263  | 19.586  | 19.565  | 44.397  | 36.529  | 25.042  |
| 10 | MAMMA1002434 | 117.152 | 72.024  | 272.113 | 68.694  | 66.706  | 54.616  | 45.191  | 46.511  |
|    | MAMMA1002446 | 102.855 | 36.748  | 90.796  | 22.955  | 36.351  | 49.598  | 42.676  | 12.897  |
|    | MAMMA1002447 | 77.962  | 49.457  | 171.445 | 42.653  | 21.446  | 36.510  | 25.929  | 27.967  |
|    | MAMMA1002454 | 314.500 | 201.950 | 539.572 | 188.845 | 118.797 | 99.696  | 72.794  | 103.951 |
|    | MAMMA1002461 | 204.681 | 47.899  | 153.652 | 28.137  | 56.943  | 63.968  | 55.245  | 48.401  |
|    | MAMMA1002463 | 130.489 | 40.148  | 72.561  | 25.745  | 31.969  | 67.395  | 41.920  | 28.713  |
| 15 | MAMMA1002464 | 94.697  | 34.520  | 44.484  | 18.573  | 24.045  | 50.857  | 37.103  | 17.415  |
|    | MAMMA1002466 | 27.080  | 25.120  | 36.208  | 16.549  | 16.920  | 44.337  | 37.029  | 13.891  |
|    | MAMMA1002470 | 66.277  | 10.542  | 19.623  | 14.778  | 9.384   | 20.022  | 21.241  | 15.324  |
|    | MAMMA1002475 | 35.982  | 26.009  | 77.707  | 23.670  | 24.685  | 10.963  | 12.591  | 26.386  |
|    | MAMMA1002480 | 85.342  | 48.419  | 144.499 | 40.755  | 50.788  | 48.101  | 35.187  | 30.058  |
|    | MAMMA1002485 | 256.024 | 56.235  | 75.461  | 32.978  | 72.095  | 120.038 | 77.311  | 49.943  |
| 20 | MAMMA1002494 | 66.749  | 23.381  | 164.418 | 25.376  | 48.947  | 43.136  | 11.733  | 14.401  |
|    | MAMMA1002498 | 58.032  | 20.346  | 24.265  | 12.932  | 13.125  | 26.950  | 19.794  | 5.551   |
|    | MAMMA1002524 | 73.628  | 20.842  | 11.923  | 21.047  | 20.268  | 27.749  | 12.366  | 14.645  |
|    | MAMMA1002530 | 82.789  | 19.903  | 43.603  | 13.551  | 9.151   | 28.535  | 27.989  | 12.505  |
|    | MAMMA1002538 | 101.182 | 27.725  | 28.460  | 21.181  | 31.900  | 45.529  | 26.380  | 25.658  |
|    | MAMMA1002545 | 131.415 | 100.020 | 322.993 | 72.173  | 54.265  | 23.145  | 30.820  | 51.328  |
|    | MAMMA1002554 | 51.033  | 30.923  | 62.549  | 16.548  | 18.644  | 38.344  | 32.052  | 17.411  |
| 25 | MAMMA1002556 | 201.613 | 62.773  | 211.073 | 70.139  | 99.337  | 37.921  | 45.357  | 46.536  |
|    | MAMMA1002561 | 199.748 | 128.004 | 586.968 | 135.854 | 118.280 | 54.740  | 81.217  | 51.656  |
|    | MAMMA1002565 | 57.918  | 43.508  | 20.564  | 13.434  | 36.930  | 27.532  | 51.392  | 13.777  |
|    | MAMMA1002566 | 29.155  | 16.405  | 7.906   | 3.460   | 1.967   | 13.518  | 5.709   | 5.318   |
|    | MAMMA1002571 | 73.034  | 22.187  | 37.154  | 25.594  | 6.079   | 28.030  | 19.946  | 20.955  |
| 30 | MAMMA1002573 | 218.479 | 62.669  | 183.544 | 61.350  | 46.029  | 113.781 | 65.617  | 60.521  |
|    | MAMMA1002576 | 109.621 | 18.498  | 33.802  | 10.617  | 22.615  | 43.283  | 55.199  | 26.452  |
|    | MAMMA1002584 | 244.467 | 197.626 | 384.879 | 79.185  | 103.251 | 112.917 | 113.914 | 151.642 |
|    | MAMMA1002585 | 133.865 | 28.963  | 56.983  | 17.186  | 16.306  | 13.727  | 51.687  | 25.753  |
|    | MAMMA1002586 | 67.168  | 39.043  | 34.776  | 15.656  | 19.252  | 29.596  | 35.555  | 19.945  |
|    | MAMMA1002589 | 98.120  | 25.567  | 26.638  | 16.923  | 18.956  | 18.249  | 16.364  | 12.591  |
|    | MAMMA1002590 | 268.176 | 57.804  | 202.329 | 36.276  | 77.487  | 180.923 | 123.883 | 42.552  |
| 35 | MAMMA1002593 | 131.425 | 64.951  | 130.257 | 54.131  | 23.515  | 55.983  | 37.410  | 36.272  |
|    | MAMMA1002597 | 76.091  | 50.352  | 131.097 | 33.606  | 42.551  | 25.425  | 36.396  | 34.764  |
|    | MAMMA1002598 | 69.190  | 45.133  | 59.324  | 58.225  | 35.339  | 68.531  | 47.164  | 70.246  |
|    | MAMMA1002603 | 122.932 | 40.124  | 155.801 | 51.386  | 48.672  | 98.075  | 64.732  | 66.103  |
|    | MAMMA1002612 | 330.999 | 152.583 | 441.574 | 105.603 | 112.764 | 175.106 | 98.853  | 99.475  |
|    | MAMMA1002617 | 363.139 | 211.631 | 557.754 | 145.485 | 146.260 | 203.052 | 110.009 | 118.254 |
| 40 | MAMMA1002618 | 90.423  | 66.208  | 129.807 | 53.454  | 46.096  | 53.758  | 43.899  | 55.854  |
|    | MAMMA1002619 | 34.076  | 14.223  | 23.292  | 10.350  | 14.540  | 15.236  | 12.465  | 13.642  |
|    | MAMMA1002622 | 112.756 | 60.308  | 263.518 | 46.461  | 43.508  | 41.984  | 32.044  | 52.630  |
|    | MAMMA1002623 | 89.689  | 68.083  | 149.811 | 64.401  | 102.216 | 102.611 | 54.682  | 73.325  |
|    | MAMMA1002625 | 83.660  | 44.949  | 94.038  | 26.154  | 32.540  | 34.576  | 38.497  | 28.162  |
|    | MAMMA1002627 | 9.090   | 2.616   | 7.631   | 2.675   | 0.000   | 3.940   | 7.852   | 8.826   |
|    | MAMMA1002629 | 111.050 | 96.279  | 397.433 | 77.573  | 45.933  | 89.752  | 53.737  | 108.399 |
| 45 | MAMMA1002631 | 50.470  | 10.960  | 11.524  | 6.679   | 3.741   | 10.219  | 10.741  | 11.301  |
|    | MAMMA1002633 | 32.234  | 20.386  | 37.729  | 16.053  | 9.358   | 12.456  | 8.681   | 32.169  |
|    | MAMMA1002636 | 59.898  | 50.529  | 142.123 | 25.014  | 15.348  | 18.150  | 38.018  | 22.608  |
|    | MAMMA1002637 | 58.583  | 21.541  | 11.323  | 5.892   | 14.789  | 18.069  | 26.406  | 22.104  |
|    | MAMMA1002646 | 55.442  | 29.770  | 36.308  | 23.176  | 15.750  | 18.816  | 26.997  | 38.809  |
|    | MAMMA1002648 | 49.661  | 48.800  | 69.217  | 43.621  | 64.730  | 39.438  | 38.742  | 48.014  |
| 50 | MAMMA1002650 | 15.384  | 6.907   | 9.595   | 4.820   | 3.958   | 6.140   | 8.225   | 6.042   |
|    | MAMMA1002652 | 61.935  | 69.556  | 44.994  | 60.882  | 59.089  | 42.135  | 62.414  | 54.651  |
|    | MAMMA1002655 | 49.617  | 25.105  | 13.568  | 11.569  | 8.462   | 23.347  | 10.991  | 22.157  |
|    | MAMMA1002662 | 122.410 | 44.430  | 94.935  | 34.850  | 32.770  | 58.417  | 41.476  | 39.910  |
|    | MAMMA1002665 | 236.733 | 190.056 | 600.904 | 183.784 | 112.684 | 133.133 | 101.570 | 153.389 |
| 55 | MAMMA1002671 | 89.496  | 41.623  | 60.274  | 25.563  | 20.577  | 26.452  | 50.459  | 40.518  |

Table 60

|    |              |         |         |         |         |         |         |         |          |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|----------|
|    | MAMMA1002673 | 94.294  | 135.347 | 302.435 | 85.978  | 116.544 | 122.876 | 58.765  | 72.402   |
|    | MAMMA1002684 | 169.486 | 32.550  | 60.424  | 32.013  | 39.987  | 86.564  | 80.699  | 45.058   |
| 5  | MAMMA1002685 | 25.020  | 18.401  | 21.785  | 11.312  | 11.628  | 3.402   | 5.660   | 25.002   |
|    | MAMMA1002692 | 7.274   | 9.361   | 3.697   | 10.386  | 2.003   | 4.100   | 3.302   | 9.849    |
|    | MAMMA1002693 | 66.711  | 52.339  | 15.641  | 32.934  | 10.671  | 20.167  | 32.429  | 30.795   |
|    | MAMMA1002698 | 39.272  | 32.200  | 43.657  | 33.153  | 4.354   | 11.796  | 12.328  | 34.409   |
|    | MAMMA1002699 | 18.348  | 10.645  | 5.272   | 3.333   | 2.314   | 3.625   | 12.679  | 6.883    |
|    | MAMMA1002701 | 66.193  | 107.821 | 326.150 | 82.189  | 33.993  | 57.919  | 29.820  | 56.144   |
| 10 | MAMMA1002708 | 232.250 | 119.730 | 163.846 | 75.850  | 65.245  | 76.116  | 103.624 | 109.697  |
|    | MAMMA1002711 | 128.862 | 101.834 | 359.100 | 105.535 | 79.020  | 76.543  | 26.135  | 61.975   |
|    | MAMMA1002712 | 55.151  | 50.304  | 36.811  | 8.507   | 18.857  | 25.978  | 44.085  | 47.001   |
|    | MAMMA1002716 | 32.821  | 37.741  | 37.674  | 23.554  | 13.366  | 39.383  | 49.740  | 33.088   |
|    | MAMMA1002721 | 128.620 | 78.060  | 360.516 | 86.920  | 49.826  | 57.925  | 48.421  | 76.576   |
|    | MAMMA1002723 | 67.425  | 45.775  | 59.116  | 53.954  | 27.853  | 31.646  | 28.039  | 37.993   |
| 15 | MAMMA1002727 | 4.194   | 5.317   | 4.081   | 4.586   | 3.879   | 1.679   | 6.885   | 6.203    |
|    | MAMMA1002728 | 45.508  | 63.239  | 134.784 | 49.369  | 17.238  | 32.733  | 26.228  | 67.828   |
|    | MAMMA1002742 | 486.871 | 191.088 | 183.567 | 79.031  | 108.740 | 257.374 | 156.771 | 126.280  |
|    | MAMMA1002743 | 17.914  | 25.779  | 65.317  | 19.354  | 14.843  | 12.214  | 24.184  | 22.277   |
|    | MAMMA1002744 | 70.172  | 65.184  | 190.550 | 59.599  | 40.023  | 33.273  | 23.675  | 53.991   |
|    | MAMMA1002746 | 14.967  | 8.271   | 6.293   | 9.116   | 3.957   | 9.800   | 1.039   | 7.011    |
| 20 | MAMMA1002748 | 53.355  | 180.966 | 171.425 | 25.271  | 3.510   | 13.742  | 11.775  | 23.747   |
|    | MAMMA1002754 | 64.093  | 69.489  | 189.499 | 44.022  | 29.371  | 15.039  | 15.857  | 30.299   |
|    | MAMMA1002758 | 25.835  | 7.240   | 9.756   | 5.507   | 5.640   | 9.500   | 11.968  | 9.173    |
|    | MAMMA1002762 | 65.824  | 58.122  | 104.988 | 33.940  | 18.698  | 86.679  | 92.471  | 84.012   |
|    | MAMMA1002764 | 104.828 | 95.058  | 295.803 | 59.465  | 52.006  | 47.508  | 45.629  | 48.337   |
|    | MAMMA1002765 | 81.926  | 54.425  | 185.685 | 56.838  | 25.634  | 30.254  | 22.519  | 36.212   |
| 25 | MAMMA1002769 | 20.078  | 9.062   | 33.997  | 9.878   | 15.366  | 12.293  | 19.431  | 15.797   |
|    | MAMMA1002771 | 92.652  | 248.038 | 91.136  | 106.297 | 36.324  | 95.235  | 52.022  | 929.910  |
|    | MAMMA1002775 | 51.236  | 37.084  | 125.540 | 30.088  | 37.975  | 21.242  | 25.695  | 24.387   |
|    | MAMMA1002780 | 23.190  | 24.572  | 73.778  | 29.564  | 12.337  | 13.199  | 6.027   | 19.175   |
|    | MAMMA1002782 | 76.728  | 28.066  | 76.753  | 28.366  | 26.053  | 26.045  | 13.885  | 33.944   |
|    | MAMMA1002795 | 17.412  | 3.178   | 14.907  | 9.264   | 2.359   | 6.615   | 10.186  | 19.921   |
| 30 | MAMMA1002796 | 28.596  | 28.390  | 48.340  | 13.930  | 16.360  | 14.274  | 13.494  | 19.709   |
|    | MAMMA1002805 | 25.198  | 16.430  | 30.126  | 13.856  | 9.933   | 47.769  | 23.312  | 13.432   |
|    | MAMMA1002806 | 84.431  | 28.564  | 34.957  | 32.528  | 49.335  | 29.125  | 31.705  | 30.489   |
|    | MAMMA1002807 | 64.374  | 42.471  | 124.060 | 39.454  | 51.288  | 34.538  | 23.265  | 46.125   |
|    | MAMMA1002814 | 28.078  | 31.573  | 133.666 | 36.466  | 14.707  | 19.459  | 22.590  | 33.539   |
|    | MAMMA1002817 | 8.719   | 10.443  | 6.527   | 4.036   | 1.155   | 2.240   | 8.038   | 11.128   |
|    | MAMMA1002820 | 15.173  | 5.049   | 24.747  | 14.605  | 7.416   | 9.432   | 16.038  | 5.111    |
| 35 | MAMMA1002830 | 91.438  | 212.662 | 185.761 | 75.492  | 49.491  | 111.835 | 311.632 | 133.132  |
|    | MAMMA1002833 | 90.875  | 71.138  | 237.238 | 50.346  | 44.689  | 47.222  | 25.094  | 46.080   |
|    | MAMMA1002835 | 28.488  | 23.244  | 28.102  | 14.935  | 9.604   | 12.597  | 16.302  | 12.709   |
|    | MAMMA1002838 | 84.752  | 56.692  | 166.200 | 49.694  | 30.237  | 32.930  | 11.628  | 26.416   |
|    | MAMMA1002842 | 98.706  | 53.519  | 151.675 | 23.902  | 32.033  | 41.236  | 27.950  | 47.227   |
|    | MAMMA1002843 | 76.343  | 31.051  | 107.479 | 18.190  | 24.282  | 30.456  | 19.401  | 13.727   |
| 40 | MAMMA1002844 | 311.853 | 139.150 | 228.560 | 66.881  | 72.282  | 201.758 | 152.946 | 94.166   |
|    | MAMMA1002845 | 4.464   | 5.631   | 16.258  | 13.028  | 3.642   | 8.306   | 5.338   | 22.843   |
|    | MAMMA1002857 | 77.604  | 209.913 | 235.780 | 167.148 | 50.200  | 178.228 | 129.737 | 278.807  |
|    | MAMMA1002858 | 113.809 | 319.730 | 662.654 | 523.500 | 84.144  | 532.413 | 382.518 | 1000.090 |
|    | MAMMA1002863 | 108.297 | 33.190  | 66.980  | 38.305  | 26.112  | 45.735  | 86.883  | 51.987   |
|    | MAMMA1002868 | 65.375  | 102.643 | 253.035 | 92.062  | 91.774  | 46.567  | 38.439  | 58.468   |
| 45 | MAMMA1002869 | 85.453  | 22.923  | 80.058  | 19.164  | 22.933  | 26.217  | 42.600  | 30.859   |
|    | MAMMA1002871 | 28.097  | 6.998   | 5.660   | 1.623   | 3.087   | 7.477   | 5.467   | 3.406    |
|    | MAMMA1002875 | 20.954  | 16.542  | 18.160  | 22.628  | 23.110  | 21.099  | 24.952  | 32.949   |
|    | MAMMA1002879 | 33.352  | 14.773  | 9.446   | 6.359   | 8.506   | 13.275  | 30.077  | 23.108   |
|    | MAMMA1002880 | 46.288  | 35.830  | 71.009  | 12.119  | 12.813  | 15.447  | 20.107  | 22.354   |
|    | MAMMA1002881 | 57.225  | 55.154  | 238.977 | 25.333  | 27.378  | 18.964  | 34.053  | 52.410   |
|    | MAMMA1002885 | 87.039  | 28.425  | 35.323  | 14.016  | 29.952  | 34.101  | 61.975  | 26.271   |
| 50 | MAMMA1002886 | 398.174 | 39.003  | 88.206  | 52.831  | 26.325  | 197.562 | 39.216  | 20.561   |
|    | MAMMA1002887 | 45.505  | 7.809   | 7.548   | 7.024   | 9.968   | 8.271   | 13.675  | 5.111    |
|    | MAMMA1002890 | 65.426  | 61.707  | 153.034 | 36.444  | 19.739  | 40.974  | 38.649  | 41.029   |
|    | MAMMA1002892 | 58.445  | 53.672  | 210.646 | 36.086  | 31.508  | 36.186  | 13.729  | 35.746   |
|    | MAMMA1002893 | 76.469  | 18.593  | 25.600  | 5.864   | 9.192   | 24.826  | 20.585  | 11.290   |
|    | MAMMA1002895 | 33.029  | 30.313  | 81.623  | 21.896  | 10.209  | 8.431   | 11.614  | 21.933   |

Table 61

|    |              |         |         |         |         |         |         |          |         |
|----|--------------|---------|---------|---------|---------|---------|---------|----------|---------|
|    | MAMMA1002898 | 88.538  | 24.524  | 42.725  | 9.653   | 16.551  | 32.137  | 42.359   | 30.615  |
|    | MAMMA1002905 | 191.445 | 39.095  | 72.714  | 28.234  | 32.209  | 91.200  | 60.899   | 51.358  |
| 5  | MAMMA1002906 | 92.692  | 27.862  | 53.273  | 26.259  | 34.130  | 57.141  | 67.635   | 26.917  |
|    | MAMMA1002908 | 77.656  | 66.964  | 209.054 | 54.014  | 54.429  | 43.639  | 58.626   | 50.901  |
|    | MAMMA1002909 | 157.128 | 123.626 | 654.652 | 152.777 | 89.304  | 83.884  | 61.550   | 89.879  |
|    | MAMMA1002918 | 55.362  | 26.201  | 35.298  | 14.931  | 10.960  | 19.166  | 27.775   | 29.119  |
|    | MAMMA1002925 | 50.571  | 70.116  | 54.395  | 18.071  | 27.814  | 43.511  | 11.984   | 57.467  |
|    | MAMMA1002926 | 105.041 | 221.644 | 119.112 | 66.217  | 73.866  | 245.600 | 1218.974 | 550.265 |
| 10 | MAMMA1002930 | 68.089  | 38.713  | 147.112 | 32.243  | 19.181  | 31.875  | 24.698   | 46.379  |
|    | MAMMA1002937 | 207.866 | 61.711  | 89.764  | 38.377  | 38.050  | 97.677  | 156.876  | 119.279 |
|    | MAMMA1002938 | 34.139  | 13.727  | 21.350  | 7.309   | 10.152  | 15.165  | 14.230   | 14.534  |
|    | MAMMA1002941 | 18.884  | 30.845  | 50.805  | 19.591  | 7.699   | 16.322  | 11.528   | 24.529  |
|    | MAMMA1002947 | 63.095  | 31.441  | 46.623  | 20.590  | 18.624  | 28.594  | 29.987   | 39.586  |
|    | MAMMA1002964 | 43.981  | 37.785  | 133.836 | 22.173  | 11.661  | 25.346  | 15.389   | 28.296  |
| 15 | MAMMA1002967 | 37.974  | 16.689  | 23.126  | 13.527  | 10.863  | 35.085  | 22.091   | 25.886  |
|    | MAMMA1002970 | 178.268 | 124.368 | 533.590 | 120.984 | 97.317  | 92.795  | 66.069   | 109.854 |
|    | MAMMA1002971 | 99.466  | 79.461  | 50.710  | 19.662  | 15.091  | 40.745  | 37.592   | 51.546  |
|    | MAMMA1002972 | 83.922  | 33.377  | 50.911  | 16.436  | 12.354  | 42.113  | 50.137   | 45.819  |
|    | MAMMA1002973 | 117.540 | 70.913  | 318.513 | 45.601  | 38.568  | 34.070  | 22.903   | 68.699  |
|    | MAMMA1002979 | 80.771  | 204.398 | 227.280 | 56.459  | 375.745 | 119.386 | 122.750  | 226.538 |
| 20 | MAMMA1002982 | 19.895  | 9.493   | 14.202  | 6.265   | 0.000   | 0.000   | 0.000    | 5.076   |
|    | MAMMA1002987 | 65.397  | 50.918  | 156.507 | 28.534  | 30.958  | 22.630  | 16.594   | 36.952  |
|    | MAMMA1003003 | 104.891 | 69.630  | 125.933 | 48.800  | 36.915  | 48.025  | 45.716   | 47.346  |
|    | MAMMA1003004 | 41.353  | 106.059 | 274.622 | 111.746 | 92.691  | 59.597  | 33.719   | 77.654  |
|    | MAMMA1003007 | 20.423  | 21.289  | 75.498  | 16.044  | 8.909   | 15.878  | 6.947    | 15.193  |
|    | MAMMA1003011 | 45.615  | 37.641  | 29.754  | 23.843  | 21.157  | 33.395  | 48.907   | 39.054  |
|    | MAMMA1003013 | 65.088  | 58.284  | 49.438  | 27.289  | 18.877  | 31.768  | 67.950   | 59.419  |
| 25 | MAMMA1003015 | 36.817  | 29.585  | 89.251  | 19.826  | 4.679   | 16.602  | 6.959    | 10.432  |
|    | MAMMA1003019 | 10.026  | 30.107  | 5.244   | 7.467   | 2.375   | 6.403   | 3.225    | 6.184   |
|    | MAMMA1003020 | 48.046  | 31.761  | 50.515  | 13.842  | 17.142  | 19.341  | 28.497   | 20.218  |
|    | MAMMA1003026 | 28.646  | 14.274  | 3.514   | 8.603   | 6.618   | 9.838   | 11.161   | 6.781   |
|    | MAMMA1003031 | 248.219 | 140.526 | 311.997 | 98.494  | 105.194 | 112.752 | 66.462   | 132.570 |
|    | MAMMA1003033 | 47.072  | 27.208  | 130.132 | 44.811  | 42.096  | 33.806  | 17.555   | 36.757  |
| 30 | MAMMA1003035 | 102.528 | 49.560  | 45.025  | 30.912  | 25.924  | 64.046  | 42.175   | 56.246  |
|    | MAMMA1003039 | 37.382  | 19.822  | 98.219  | 37.555  | 17.115  | 27.935  | 9.656    | 25.906  |
|    | MAMMA1003040 | 76.014  | 95.416  | 243.138 | 114.795 | 84.250  | 59.989  | 42.107   | 100.448 |
|    | MAMMA1003044 | 79.444  | 46.915  | 90.545  | 40.709  | 21.121  | 25.258  | 13.745   | 23.444  |
|    | MAMMA1003047 | 376.340 | 121.483 | 150.100 | 91.015  | 100.397 | 168.621 | 175.219  | 122.400 |
|    | MAMMA1003049 | 26.899  | 9.631   | 9.169   | 2.907   | 5.679   | 12.149  | 5.016    | 10.003  |
| 35 | MAMMA1003055 | 38.639  | 24.977  | 76.695  | 21.811  | 15.758  | 11.937  | 6.277    | 20.034  |
|    | MAMMA1003056 | 31.238  | 13.811  | 32.121  | 15.345  | 7.891   | 17.689  | 3.176    | 18.147  |
|    | MAMMA1003057 | 68.258  | 35.596  | 34.053  | 23.862  | 19.335  | 28.373  | 32.521   | 36.634  |
|    | MAMMA1003066 | 43.837  | 46.015  | 117.875 | 31.178  | 11.361  | 17.068  | 9.179    | 35.831  |
|    | MAMMA1003075 | 16.366  | 6.334   | 32.629  | 10.374  | 3.215   | 6.507   | 2.433    | 11.804  |
|    | MAMMA1003089 | 49.867  | 51.500  | 220.715 | 36.189  | 24.057  | 14.625  | 14.530   | 41.852  |
|    | MAMMA1003092 | 22.129  | 73.102  | 15.615  | 27.304  | 11.693  | 9.575   | 15.986   | 84.963  |
| 40 | MAMMA1003095 | 8.240   | 37.313  | 24.078  | 8.354   | 10.123  | 9.662   | 24.609   | 12.392  |
|    | MAMMA1003099 | 44.094  | 27.545  | 96.117  | 16.060  | 12.184  | 15.519  | 4.930    | 23.720  |
|    | MAMMA1003102 | 44.491  | 18.730  | 31.447  | 14.500  | 22.389  | 16.929  | 20.089   | 20.899  |
|    | MAMMA1003104 | 35.977  | 19.146  | 34.647  | 14.588  | 10.720  | 11.459  | 11.385   | 18.999  |
|    | MAMMA1003113 | 41.697  | 21.092  | 30.337  | 15.635  | 14.764  | 14.690  | 17.723   | 23.810  |
|    | MAMMA1003126 | 20.042  | 39.595  | 102.916 | 21.241  | 15.167  | 17.921  | 20.876   | 26.563  |
| 45 | MAMMA1003127 | 57.961  | 27.221  | 102.332 | 12.486  | 8.002   | 12.295  | 13.773   | 22.285  |
|    | MAMMA1003131 | 267.516 | 37.924  | 129.263 | 66.563  | 86.667  | 135.209 | 95.293   | 83.256  |
|    | MAMMA1003135 | 22.855  | 14.308  | 5.624   | 7.938   | 2.690   | 14.984  | 7.633    | 17.269  |
|    | MAMMA1003140 | 6.575   | 9.140   | 33.040  | 4.487   | 0.895   | 1.900   | 5.064    | 5.312   |
|    | MAMMA1003146 | 14.105  | 18.018  | 18.562  | 11.213  | 11.461  | 16.500  | 8.591    | 9.815   |
|    | MAMMA1003150 | 311.806 | 87.992  | 58.938  | 77.271  | 104.739 | 165.139 | 115.042  | 46.945  |
| 50 | MAMMA1003154 | 93.002  | 39.912  | 37.471  | 22.819  | 19.655  | 31.742  | 26.299   | 27.565  |
|    | MAMMA1003155 | 41.709  | 26.308  | 36.508  | 14.326  | 18.674  | 30.842  | 23.489   | 18.046  |
|    | MAMMA1003157 | 34.876  | 32.317  | 147.845 | 12.108  | 24.093  | 12.999  | 8.766    | 19.930  |
|    | MAMMA1003163 | 37.900  | 25.338  | 29.052  | 18.551  | 20.826  | 32.639  | 35.893   | 33.749  |
|    | MAMMA1003164 | 26.961  | 14.747  | 18.545  | 13.932  | 5.852   | 14.778  | 13.694   | 20.137  |
| 55 | MAMMA1003166 | 12.213  | 5.478   | 7.671   | 8.749   | 1.781   | 3.094   | 8.412    | 7.640   |

Table 62

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | NB9N31000010 | 31.105  | 17.113  | 26.284  | 14.271  | 7.540   | 17.180  | 16.220  | 11.568  |
|    | NB9N31000016 | 63.431  | 16.195  | 24.879  | 17.001  | 16.740  | 25.216  | 14.845  | 17.364  |
| 5  | NB9N31000043 | 87.438  | 35.161  | 58.144  | 20.813  | 36.473  | 36.956  | 51.575  | 34.673  |
|    | NB9N31000045 | 83.399  | 109.448 | 62.101  | 95.653  | 93.734  | 94.218  | 166.654 | 74.328  |
|    | NB9N31000054 | 41.821  | 12.636  | 37.831  | 15.025  | 15.265  | 18.963  | 10.894  | 13.189  |
|    | NB9N31000076 | 22.822  | 22.709  | 57.320  | 14.223  | 12.517  | 9.029   | 11.713  | 24.494  |
|    | NB9N31000086 | 31.281  | 74.504  | 22.661  | 29.164  | 11.744  | 29.951  | 13.909  | 30.012  |
|    | NT2RM1000001 | 11.595  | 9.900   | 11.540  | 4.467   | 4.016   | 8.823   | 6.775   | 5.184   |
| 10 | NT2RM1000018 | 333.185 | 68.022  | 171.103 | 77.680  | 48.418  | 138.131 | 122.906 | 79.595  |
|    | NT2RM1000032 | 37.506  | 9.768   | 23.088  | 9.453   | 13.222  | 16.128  | 22.911  | 12.495  |
|    | NT2RM1000035 | 185.573 | 46.513  | 81.354  | 56.890  | 39.846  | 82.885  | 74.450  | 52.553  |
|    | NT2RM1000037 | 185.843 | 60.878  | 116.479 | 50.830  | 36.658  | 98.591  | 49.882  | 54.356  |
|    | NT2RM1000039 | 228.804 | 172.849 | 444.715 | 104.606 | 82.108  | 214.282 | 139.766 | 101.078 |
|    | NT2RM1000042 | 55.479  | 102.774 | 112.292 | 145.900 | 52.898  | 89.445  | 80.537  | 184.618 |
| 15 | NT2RM1000055 | 1.083   | 0.593   | 0.000   | 0.000   | 0.252   | 0.000   | 5.227   | 0.000   |
|    | NT2RM1000059 | 212.057 | 100.267 | 173.989 | 78.130  | 50.792  | 143.445 | 83.189  | 102.504 |
|    | NT2RM1000062 | 11.755  | 9.438   | 11.334  | 1.925   | 2.705   | 2.434   | 25.015  | 10.555  |
|    | NT2RM1000065 | 153.505 | 42.956  | 56.248  | 29.740  | 66.820  | 67.974  | 42.112  | 65.531  |
|    | NT2RM1000066 | 26.794  | 6.539   | 7.914   | 2.716   | 6.609   | 8.275   | 11.533  | 13.605  |
|    | NT2RM1000071 | 42.919  | 126.091 | 61.623  | 97.378  | 24.665  | 45.008  | 74.491  | 266.252 |
| 20 | NT2RM1000080 | 12.803  | 1.714   | 1.023   | 4.022   | 2.135   | 8.919   | 13.254  | 4.329   |
|    | NT2RM1000086 | 393.857 | 146.368 | 283.360 | 100.835 | 117.874 | 205.973 | 155.085 | 102.325 |
|    | NT2RM1000092 | 12.949  | 18.015  | 4.187   | 6.602   | 2.600   | 0.000   | 5.579   | 17.636  |
|    | NT2RM1000118 | 0.000   | 0.276   | 0.000   | 0.180   | 0.000   | 0.000   | 0.000   | 0.655   |
|    | NT2RM1000119 | 18.719  | 5.828   | 9.051   | 5.794   | 3.873   | 6.048   | 19.700  | 10.812  |
|    | NT2RM1000121 | 2.231   | 0.000   | 7.566   | 3.177   | 3.735   | 3.309   | 1.697   | 3.614   |
| 25 | NT2RM1000122 | 309.647 | 84.904  | 138.129 | 58.379  | 75.966  | 213.166 | 141.553 | 57.569  |
|    | NT2RM1000127 | 14.133  | 3.707   | 2.380   | 2.322   | 3.743   | 4.212   | 8.594   | 5.786   |
|    | NT2RM1000131 | 1.661   | 1.269   | 0.348   | 0.000   | 0.768   | 0.000   | 2.271   | 2.221   |
|    | NT2RM1000132 | 10.432  | 7.649   | 9.599   | 3.479   | 7.287   | 11.592  | 13.046  | 10.752  |
|    | NT2RM1000153 | 39.773  | 9.302   | 10.314  | 3.465   | 4.419   | 11.775  | 17.131  | 12.503  |
|    | NT2RM1000184 | 85.968  | 171.937 | 58.982  | 34.486  | 22.674  | 51.668  | 129.969 | 177.417 |
|    | NT2RM1000186 | 2.149   | 4.607   | 0.000   | 0.000   | 1.586   | 1.226   | 3.974   | 7.121   |
| 30 | NT2RM1000187 | 29.354  | 12.303  | 16.019  | 17.222  | 15.020  | 17.176  | 15.232  | 18.703  |
|    | NT2RM1000199 | 16.274  | 0.000   | 17.316  | 6.834   | 4.725   | 5.212   | 8.917   | 6.720   |
|    | NT2RM1000213 | 17.361  | 14.639  | 43.481  | 9.904   | 8.998   | 12.127  | 6.422   | 10.141  |
|    | NT2RM1000215 | 8.787   | 10.858  | 90.070  | 4.505   | 89.435  | 12.158  | 6.380   | 7.453   |
|    | NT2RM1000218 | 0.000   | 10.196  | 7.239   | 2.227   | 1.452   | 4.273   | 8.324   | 4.445   |
|    | NT2RM1000224 | 35.730  | 65.418  | 0.000   | 47.537  | 20.172  | 44.102  | 26.563  | 63.368  |
| 35 | NT2RM1000236 | 52.706  | 47.803  | 20.481  | 19.138  | 42.513  | 21.813  | 58.118  | 100.492 |
|    | NT2RM1000242 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
|    | NT2RM1000244 | 13.988  | 12.654  | 6.957   | 9.937   | 6.047   | 8.026   | 8.938   | 3.968   |
|    | NT2RM1000252 | 283.006 | 144.306 | 358.324 | 169.383 | 149.200 | 192.609 | 174.288 | 239.093 |
|    | NT2RM1000256 | 284.496 | 113.021 | 203.771 | 67.954  | 94.270  | 152.181 | 132.435 | 150.452 |
|    | NT2RM1000257 | 8.203   | 8.081   | 9.713   | 9.716   | 0.000   | 5.002   | 7.893   | 7.694   |
| 40 | NT2RM1000260 | 548.461 | 312.072 | 494.663 | 164.454 | 249.491 | 313.672 | 232.568 | 270.549 |
|    | NT2RM1000269 | 9.472   | 7.461   | 6.606   | 10.004  | 8.876   | 5.844   | 16.818  | 6.933   |
|    | NT2RM1000271 | 8.917   | 1.259   | 3.857   | 2.440   | 2.317   | 4.289   | 4.982   | 5.727   |
|    | NT2RM1000272 | 83.425  | 97.598  | 29.246  | 80.462  | 22.650  | 25.350  | 34.266  | 157.515 |
|    | NT2RM1000273 | 27.031  | 19.960  | 21.872  | 11.127  | 5.201   | 25.896  | 29.976  | 17.270  |
|    | NT2RM1000274 | 42.234  | 91.340  | 28.306  | 26.224  | 11.534  | 34.723  | 32.623  | 85.440  |
| 45 | NT2RM1000280 | 14.289  | 12.359  | 21.912  | 7.205   | 7.361   | 10.397  | 4.200   | 10.119  |
|    | NT2RM1000295 | 8.249   | 4.916   | 17.445  | 4.671   | 9.099   | 9.454   | 2.185   | 1.092   |
|    | NT2RM1000300 | 41.252  | 31.172  | 62.474  | 15.266  | 6.023   | 14.825  | 6.206   | 14.221  |
|    | NT2RM1000304 | 130.855 | 217.805 | 133.583 | 142.504 | 77.271  | 155.874 | 78.198  | 321.054 |
|    | NT2RM1000314 | 255.347 | 113.392 | 165.204 | 56.831  | 114.936 | 189.937 | 108.461 | 113.313 |
|    | NT2RM1000318 | 4.002   | 22.985  | 8.505   | 14.343  | 0.836   | 6.124   | 14.391  | 25.194  |
|    | NT2RM1000335 | 10.157  | 10.048  | 6.881   | 7.482   | 5.897   | 3.558   | 14.151  | 14.353  |
| 50 | NT2RM1000341 | 41.219  | 3.681   | 1.562   | 0.000   | 0.000   | 10.884  | 5.578   | 6.704   |
|    | NT2RM1000350 | 302.316 | 74.071  | 106.873 | 34.040  | 61.895  | 149.078 | 112.517 | 85.201  |
|    | NT2RM1000354 | 6.027   | 0.000   | 0.000   | 1.807   | 0.000   | 0.921   | 2.303   | 1.256   |
|    | NT2RM1000355 | 74.362  | 158.811 | 209.578 | 39.101  | 103.936 | 249.368 | 14.695  | 225.724 |
|    | NT2RM1000361 | 16.299  | 10.575  | 9.446   | 7.432   | 8.424   | 7.383   | 4.356   | 5.053   |
|    | NT2RM1000365 | 0.000   | 0.000   | 0.000   | 0.000   | 1.447   | 0.000   | 0.000   | 0.000   |

Table 63

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | NT2RM1000372 | 93.583  | 9.616   | 49.097  | 28.761  | 33.904  | 61.678  | 39.147  | 31.524  |
|    | NT2RM1000377 | 42.186  | 17.871  | 22.783  | 12.668  | 13.142  | 15.587  | 18.377  | 23.602  |
| 5  | NT2RM1000388 | 8.811   | 19.351  | 1.155   | 5.242   | 0.780   | 5.795   | 6.201   | 11.464  |
|    | NT2RM1000394 | 0.899   | 1.862   | 0.813   | 1.925   | 0.438   | 0.000   | 0.000   | 0.000   |
|    | NT2RM1000399 | 1.641   | 5.386   | 0.000   | 2.270   | 0.570   | 0.319   | 2.023   | 1.257   |
|    | NT2RM1000407 | 69.180  | 19.536  | 39.379  | 6.299   | 21.106  | 27.229  | 14.102  | 13.378  |
|    | NT2RM1000421 | 0.890   | 0.000   | 0.000   | 0.000   | 0.456   | 0.150   | 0.000   | 0.000   |
|    | NT2RM1000422 | 102.028 | 152.115 | 200.732 | 297.482 | 65.137  | 134.344 | 50.452  | 241.878 |
| 10 | NT2RM1000430 | 16.769  | 3.286   | 12.402  | 4.398   | 4.506   | 12.149  | 11.238  | 7.508   |
|    | NT2RM1000462 | 167.815 | 117.695 | 165.008 | 62.828  | 65.795  | 81.561  | 72.026  | 118.786 |
|    | NT2RM1000499 | 16.037  | 22.127  | 75.152  | 12.507  | 7.415   | 7.335   | 41.299  | 22.217  |
|    | NT2RM1000512 | 126.610 | 24.122  | 12.786  | 25.082  | 11.161  | 46.878  | 21.802  | 31.090  |
|    | NT2RM1000519 | 7.852   | 28.718  | 9.178   | 14.716  | 6.756   | 27.934  | 11.081  | 10.474  |
|    | NT2RM1000527 | 29.692  | 15.338  | 24.471  | 17.418  | 45.221  | 59.291  | 31.450  | 14.020  |
| 15 | NT2RM1000539 | 14.790  | 19.300  | 31.135  | 14.824  | 2.560   | 6.669   | 3.751   | 10.774  |
|    | NT2RM1000542 | 118.560 | 38.555  | 21.020  | 20.675  | 29.849  | 30.176  | 22.378  | 32.507  |
|    | NT2RM1000553 | 37.329  | 18.841  | 47.329  | 24.533  | 23.901  | 33.590  | 34.084  | 33.966  |
|    | NT2RM1000555 | 77.352  | 46.168  | 43.953  | 21.772  | 15.838  | 16.936  | 12.057  | 35.840  |
|    | NT2RM1000558 | 55.132  | 15.424  | 20.508  | 7.987   | 7.249   | 8.886   | 23.984  | 21.919  |
|    | NT2RM1000563 | 39.161  | 14.058  | 17.872  | 12.234  | 8.871   | 14.324  | 12.341  | 13.462  |
| 20 | NT2RM1000566 | 3.172   | 7.323   | 0.000   | 2.755   | 1.243   | 3.584   | 2.944   | 4.754   |
|    | NT2RM1000570 | 65.428  | 72.508  | 44.124  | 24.498  | 15.164  | 26.341  | 21.720  | 56.340  |
|    | NT2RM1000571 | 20.300  | 15.881  | 9.841   | 14.197  | 7.525   | 7.964   | 16.668  | 9.893   |
|    | NT2RM1000574 | 45.305  | 32.953  | 5.746   | 5.977   | 1.945   | 5.060   | 1.526   | 3.809   |
|    | NT2RM1000580 | 10.540  | 9.295   | 12.139  | 8.734   | 2.114   | 6.532   | 5.687   | 7.120   |
|    | NT2RM1000620 | 11.778  | 12.782  | 21.632  | 15.504  | 5.894   | 4.488   | 3.359   | 17.303  |
|    | NT2RM1000623 | 3.914   | 2.515   | 0.416   | 3.125   | 0.251   | 0.715   | 0.355   | 2.159   |
| 25 | NT2RM1000630 | 17.633  | 6.091   | 6.532   | 3.910   | 2.095   | 8.257   | 7.963   | 6.411   |
|    | NT2RM1000633 | 5.563   | 70.230  | 93.799  | 22.316  | 42.967  | 24.174  | 6.091   | 43.328  |
|    | NT2RM1000634 | 3.427   | 3.869   | 2.248   | 1.997   | 0.487   | 0.000   | 1.258   | 3.039   |
|    | NT2RM1000642 | 87.902  | 31.353  | 26.846  | 11.421  | 21.495  | 75.074  | 66.152  | 42.393  |
|    | NT2RM1000647 | 46.410  | 65.742  | 56.619  | 55.351  | 49.439  | 30.233  | 26.128  | 50.923  |
|    | NT2RM1000648 | 25.285  | 9.969   | 8.914   | 5.538   | 3.383   | 6.086   | 5.045   | 5.201   |
| 30 | NT2RM1000650 | 22.370  | 16.864  | 19.881  | 11.036  | 29.031  | 8.360   | 13.836  | 11.166  |
|    | NT2RM1000661 | 23.325  | 6.294   | 12.692  | 7.551   | 6.360   | 11.076  | 18.036  | 9.158   |
|    | NT2RM1000666 | 13.966  | 1.244   | 3.221   | 1.629   | 1.543   | 4.997   | 1.079   | 2.418   |
|    | NT2RM1000669 | 7.339   | 9.184   | 2.145   | 1.453   | 1.159   | 1.973   | 0.824   | 6.789   |
|    | NT2RM1000672 | 58.162  | 25.532  | 15.778  | 9.171   | 22.446  | 58.987  | 16.791  | 14.945  |
|    | NT2RM1000681 | 21.724  | 106.663 | 3.979   | 14.842  | 2.185   | 20.284  | 16.034  | 21.688  |
| 35 | NT2RM1000691 | 4.381   | 9.202   | 2.832   | 3.483   | 1.268   | 0.878   | 2.181   | 3.652   |
|    | NT2RM1000698 | 31.943  | 17.379  | 9.609   | 16.495  | 5.185   | 8.614   | 8.628   | 12.092  |
|    | NT2RM1000699 | 10.439  | 2.722   | 5.406   | 4.115   | 3.535   | 6.367   | 10.784  | 8.214   |
|    | NT2RM1000702 | 32.110  | 7.097   | 17.438  | 3.946   | 5.019   | 19.783  | 16.192  | 9.778   |
|    | NT2RM1000703 | 32.168  | 17.962  | 20.468  | 14.964  | 19.912  | 19.806  | 20.940  | 16.286  |
|    | NT2RM1000704 | 25.926  | 35.690  | 22.230  | 11.998  | 15.536  | 38.075  | 52.384  | 26.689  |
| 40 | NT2RM1000725 | 12.567  | 91.681  | 3.742   | 10.735  | 0.262   | 10.694  | 14.773  | 17.602  |
|    | NT2RM1000726 | 7.525   | 9.354   | 5.608   | 7.297   | 2.528   | 3.884   | 3.237   | 8.489   |
|    | NT2RM1000731 | 144.609 | 19.850  | 46.338  | 14.141  | 85.767  | 40.231  | 32.791  | 30.972  |
|    | NT2RM1000741 | 14.291  | 4.715   | 6.122   | 2.576   | 3.554   | 8.230   | 5.265   | 7.328   |
|    | NT2RM1000742 | 30.801  | 9.241   | 6.240   | 6.116   | 3.655   | 11.131  | 7.680   | 11.315  |
|    | NT2RM1000744 | 69.419  | 21.887  | 27.283  | 15.799  | 11.433  | 38.093  | 24.162  | 24.347  |
| 45 | NT2RM1000746 | 12.863  | 7.631   | 12.042  | 6.326   | 6.665   | 9.321   | 8.974   | 11.118  |
|    | NT2RM1000747 | 24.565  | 39.958  | 11.215  | 5.537   | 1.866   | 7.009   | 10.940  | 21.461  |
|    | NT2RM1000752 | 13.148  | 7.585   | 3.359   | 5.748   | 4.905   | 1.290   | 6.516   | 8.686   |
|    | NT2RM1000767 | 146.795 | 35.621  | 33.719  | 11.495  | 31.430  | 63.425  | 41.576  | 22.788  |
|    | NT2RM1000770 | 24.395  | 7.712   | 21.569  | 11.954  | 11.449  | 9.412   | 14.053  | 17.537  |
|    | NT2RM1000772 | 2.148   | 5.100   | 1.271   | 2.181   | 0.000   | 1.505   | 6.132   | 3.034   |
|    | NT2RM1000779 | 284.561 | 185.275 | 301.250 | 139.318 | 150.250 | 196.541 | 146.279 | 96.926  |
| 50 | NT2RM1000780 | 9.227   | 9.621   | 4.260   | 6.864   | 3.591   | 4.298   | 8.898   | 2.912   |
|    | NT2RM1000781 | 0.000   | 0.000   | 4.468   | 0.666   | 2.562   | 3.064   | 2.407   | 2.127   |
|    | NT2RM1000789 | 79.877  | 28.387  | 74.545  | 23.140  | 28.956  | 35.852  | 51.230  | 46.548  |
|    | NT2RM1000800 | 4.947   | 10.706  | 34.906  | 3.617   | 6.856   | 4.436   | 8.934   | 3.531   |
|    | NT2RM1000802 | 209.372 | 41.025  | 60.767  | 12.693  | 69.721  | 155.310 | 133.291 | 27.049  |
|    | NT2RM1000811 | 0.000   | 0.807   | 0.000   | 3.615   | 0.593   | 0.000   | 1.896   | 1.921   |

Table 64

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | NT2RM1000826 | 55.971  | 29.000  | 28.733  | 20.800  | 12.255  | 7.195   | 28.144  | 23.708  |
|    | NT2RM1000829 | 39.377  | 19.978  | 34.233  | 28.539  | 40.659  | 14.500  | 22.956  | 26.065  |
| 5  | NT2RM1000831 | 92.244  | 176.233 | 212.504 | 115.234 | 47.485  | 121.255 | 114.428 | 264.692 |
|    | NT2RM1000833 | 20.877  | 17.302  | 8.876   | 4.821   | 8.474   | 6.471   | 16.424  | 13.119  |
|    | NT2RM1000834 | 7.920   | 13.742  | 7.973   | 9.896   | 4.809   | 8.919   | 6.281   | 8.562   |
|    | NT2RM1000841 | 31.899  | 32.922  | 28.948  | 39.736  | 19.743  | 24.819  | 26.306  | 46.020  |
|    | NT2RM1000848 | 10.486  | 17.213  | 11.047  | 9.143   | 7.207   | 4.310   | 8.632   | 18.858  |
|    | NT2RM1000850 | 4.705   | 2.700   | 0.000   | 1.784   | 0.000   | 1.597   | 2.104   | 7.243   |
| 10 | NT2RM1000852 | 27.699  | 10.440  | 14.655  | 3.679   | 11.796  | 13.435  | 15.920  | 11.316  |
|    | NT2RM1000853 | 0.000   | 4.915   | 0.000   | 1.897   | 0.000   | 0.000   | 19.505  | 3.017   |
|    | NT2RM1000855 | 295.899 | 111.992 | 196.426 | 53.443  | 65.232  | 138.673 | 132.776 | 97.678  |
|    | NT2RM1000857 | 419.515 | 279.225 | 710.235 | 153.528 | 198.222 | 264.575 | 140.191 | 196.436 |
|    | NT2RM1000858 | 450.537 | 223.032 | 628.109 | 128.574 | 92.997  | 272.161 | 183.324 | 165.845 |
|    | NT2RM1000867 | 36.148  | 35.491  | 71.518  | 26.137  | 22.828  | 37.610  | 46.674  | 48.259  |
| 15 | NT2RM1000874 | 94.766  | 25.329  | 40.690  | 15.917  | 33.235  | 69.767  | 75.898  | 34.795  |
|    | NT2RM1000882 | 32.751  | 18.077  | 43.528  | 12.957  | 13.381  | 12.209  | 10.357  | 22.709  |
|    | NT2RM1000883 | 312.282 | 118.317 | 233.345 | 90.226  | 109.110 | 311.111 | 130.746 | 182.823 |
|    | NT2RM1000885 | 252.089 | 146.253 | 191.597 | 129.087 | 63.370  | 152.039 | 156.686 | 193.445 |
|    | NT2RM1000893 | 28.474  | 12.532  | 13.539  | 21.087  | 13.367  | 23.959  | 22.465  | 14.066  |
|    | NT2RM1000894 | 246.338 | 100.240 | 188.863 | 51.822  | 48.537  | 189.474 | 182.264 | 80.716  |
| 20 | NT2RM1000898 | 8.028   | 11.716  | 12.431  | 3.461   | 8.055   | 10.349  | 3.262   | 8.889   |
|    | NT2RM1000899 | 20.978  | 2.796   | 3.034   | 4.018   | 6.936   | 7.286   | 6.525   | 8.715   |
|    | NT2RM1000905 | 90.972  | 37.943  | 146.214 | 36.300  | 72.541  | 61.959  | 55.239  | 46.935  |
|    | NT2RM1000910 | 21.235  | 22.607  | 15.176  | 6.355   | 3.770   | 20.204  | 15.343  | 18.656  |
|    | NT2RM1000914 | 199.944 | 90.792  | 169.446 | 46.693  | 65.449  | 122.556 | 87.145  | 72.117  |
|    | NT2RM1000919 | 36.141  | 16.161  | 19.116  | 13.229  | 8.891   | 18.002  | 10.279  | 10.389  |
| 25 | NT2RM1000921 | 0.242   | 1.831   | 11.629  | 2.787   | 0.000   | 1.344   | 1.305   | 2.292   |
|    | NT2RM1000922 | 13.119  | 18.060  | 5.555   | 12.140  | 3.037   | 3.684   | 6.526   | 16.464  |
|    | NT2RM1000924 | 29.895  | 12.894  | 4.946   | 4.788   | 7.984   | 10.841  | 16.108  | 5.749   |
|    | NT2RM1000927 | 48.046  | 34.032  | 49.155  | 23.882  | 14.687  | 14.867  | 17.603  | 20.582  |
|    | NT2RM1000951 | 13.349  | 11.379  | 12.531  | 13.272  | 6.919   | 7.215   | 10.192  | 8.882   |
|    | NT2RM1000956 | 5.337   | 16.522  | 6.739   | 2.246   | 6.192   | 6.379   | 6.215   | 8.675   |
| 30 | NT2RM1000960 | 24.574  | 14.841  | 49.930  | 16.747  | 44.584  | 52.121  | 23.270  | 34.312  |
|    | NT2RM1000961 | 20.594  | 16.610  | 28.449  | 33.770  | 11.295  | 30.987  | 65.017  | 30.389  |
|    | NT2RM1000962 | 1.479   | 8.158   | 49.309  | 6.863   | 4.421   | 9.226   | 13.337  | 10.246  |
|    | NT2RM1000973 | 69.241  | 51.561  | 16.390  | 19.560  | 15.357  | 27.890  | 33.675  | 45.410  |
|    | NT2RM1000978 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.368   |
|    | NT2RM1000982 | 7.275   | 2.308   | 2.120   | 2.059   | 1.138   | 1.293   | 1.746   | 4.769   |
| 35 | NT2RM1000991 | 13.759  | 6.798   | 22.345  | 7.467   | 6.192   | 11.494  | 1.942   | 9.039   |
|    | NT2RM1000994 | 12.087  | 15.119  | 14.969  | 10.866  | 9.132   | 2.303   | 4.549   | 14.654  |
|    | NT2RM1001002 | 46.263  | 5.707   | 19.271  | 15.499  | 18.065  | 33.283  | 21.225  | 33.831  |
|    | NT2RM1001003 | 14.107  | 33.647  | 23.710  | 23.835  | 3.391   | 10.638  | 8.307   | 14.681  |
|    | NT2RM1001008 | 4.937   | 4.696   | 0.740   | 4.466   | 2.544   | 3.192   | 3.215   | 10.971  |
| 40 | NT2RM1001011 | 67.834  | 16.031  | 21.431  | 8.274   | 20.203  | 46.979  | 40.030  | 18.121  |
|    | NT2RM1001013 | 25.323  | 6.694   | 3.303   | 6.673   | 8.650   | 15.882  | 23.168  | 23.126  |
|    | NT2RM1001017 | 8.644   | 4.934   | 1.214   | 2.455   | 1.873   | 2.894   | 4.062   | 7.068   |
|    | NT2RM1001018 | 224.654 | 234.771 | 124.092 | 68.774  | 75.070  | 85.777  | 124.713 | 184.612 |
|    | NT2RM1001026 | 23.853  | 12.510  | 10.387  | 14.301  | 5.568   | 12.341  | 14.618  | 17.008  |
|    | NT2RM1001028 | 11.717  | 13.271  | 17.437  | 18.862  | 5.641   | 12.231  | 8.930   | 11.443  |
|    | NT2RM1001043 | 21.614  | 13.830  | 4.261   | 8.481   | 4.770   | 7.687   | 17.274  | 10.663  |
|    | NT2RM1001044 | 21.983  | 20.272  | 44.315  | 8.181   | 4.171   | 5.809   | 4.623   | 9.566   |
| 45 | NT2RM1001059 | 3.169   | 2.991   | 1.316   | 0.000   | 0.352   | 2.727   | 2.878   | 3.632   |
|    | NT2RM1001063 | 0.879   | 5.544   | 0.768   | 1.254   | 0.973   | 4.181   | 1.761   | 5.391   |
|    | NT2RM1001066 | 3.011   | 3.061   | 0.000   | 3.241   | 0.000   | 1.348   | 1.228   | 3.011   |
|    | NT2RM1001072 | 13.706  | 7.601   | 5.972   | 2.306   | 0.165   | 3.139   | 5.672   | 5.851   |
|    | NT2RM1001074 | 32.455  | 14.324  | 28.723  | 10.090  | 6.573   | 10.841  | 7.837   | 10.538  |
|    | NT2RM1001076 | 7.339   | 4.891   | 0.792   | 2.511   | 0.000   | 5.644   | 6.602   | 2.026   |
| 50 | NT2RM1001082 | 63.705  | 50.432  | 105.417 | 34.113  | 20.331  | 17.230  | 16.378  | 21.799  |
|    | NT2RM1001085 | 13.921  | 7.236   | 4.420   | 3.206   | 4.563   | 0.966   | 5.984   | 4.704   |
|    | NT2RM1001092 | 16.133  | 28.559  | 80.293  | 36.442  | 13.840  | 23.671  | 15.948  | 30.844  |
|    | NT2RM1001102 | 2.299   | 0.000   | 0.000   | 0.000   | 0.000   | 2.006   | 1.301   | 2.772   |
|    | NT2RM1001103 | 4.293   | 14.550  | 11.888  | 3.980   | 17.852  | 6.345   | 2.505   | 12.387  |
|    | NT2RM1001105 | 0.000   | 0.418   | 0.000   | 0.686   | 0.000   | 0.000   | 0.000   | 1.156   |
| 55 | NT2RM1001112 | 6.983   | 5.403   | 12.985  | 7.889   | 7.226   | 5.412   | 8.469   | 12.089  |

Table 65

|    |              |         |         |         |         |        |         |         |         |
|----|--------------|---------|---------|---------|---------|--------|---------|---------|---------|
|    | NT2RM1001115 | 100.486 | 24.788  | 67.251  | 18.301  | 19.421 | 53.304  | 29.318  | 21.097  |
|    | NT2RM1001122 | 18.980  | 19.515  | 19.938  | 11.109  | 10.211 | 34.308  | 33.955  | 13.422  |
| 5  | NT2RM1001136 | 4.811   | 3.751   | 2.520   | 1.126   | 0.765  | 2.194   | 2.817   | 5.117   |
|    | NT2RM1001139 | 78.791  | 18.931  | 27.710  | 8.382   | 21.060 | 31.349  | 14.028  | 14.521  |
|    | NT2RM2000003 | 27.773  | 13.438  | 12.296  | 3.254   | 10.288 | 4.103   | 14.697  | 22.880  |
|    | NT2RM2000006 | 64.154  | 36.637  | 117.073 | 30.277  | 27.783 | 25.842  | 17.647  | 24.349  |
|    | NT2RM2000010 | 57.806  | 33.217  | 60.148  | 20.749  | 86.788 | 23.487  | 19.722  | 22.651  |
|    | NT2RM2000013 | 24.877  | 27.244  | 40.874  | 15.590  | 40.045 | 30.831  | 48.932  | 36.344  |
| 10 | NT2RM2000030 | 68.595  | 26.308  | 27.271  | 17.595  | 26.608 | 41.165  | 43.837  | 27.939  |
|    | NT2RM2000032 | 22.984  | 13.418  | 59.847  | 11.737  | 13.094 | 11.681  | 12.137  | 11.426  |
|    | NT2RM2000039 | 35.892  | 5.887   | 28.101  | 23.568  | 9.740  | 51.053  | 23.006  | 23.405  |
|    | NT2RM2000042 | 7.936   | 9.200   | 20.886  | 10.060  | 5.098  | 11.101  | 20.459  | 10.744  |
|    | NT2RM2000092 | 12.085  | 11.085  | 15.415  | 5.779   | 5.195  | 6.720   | 11.106  | 5.712   |
|    | NT2RM2000093 | 51.998  | 31.271  | 57.365  | 24.041  | 26.832 | 24.640  | 12.930  | 20.135  |
| 15 | NT2RM2000101 | 34.341  | 46.687  | 64.294  | 27.692  | 29.563 | 48.487  | 33.388  | 54.246  |
|    | NT2RM2000104 | 73.163  | 48.315  | 58.786  | 33.739  | 39.845 | 53.753  | 69.151  | 73.279  |
|    | NT2RM2000124 | 35.818  | 16.923  | 31.954  | 10.723  | 11.012 | 23.770  | 21.401  | 22.254  |
|    | NT2RM2000155 | 31.139  | 23.019  | 27.033  | 12.467  | 9.797  | 13.085  | 10.315  | 17.050  |
|    | NT2RM2000191 | 151.075 | 54.651  | 87.171  | 59.579  | 62.006 | 74.514  | 126.950 | 91.326  |
|    | NT2RM2000192 | 0.760   | 2.690   | 0.971   | 4.582   | 1.137  | 2.242   | 1.413   | 0.000   |
| 20 | NT2RM2000239 | 92.578  | 36.060  | 71.933  | 31.157  | 21.570 | 60.155  | 49.672  | 39.127  |
|    | NT2RM2000240 | 104.218 | 69.966  | 77.545  | 23.453  | 53.412 | 78.029  | 64.223  | 83.906  |
|    | NT2RM2000241 | 70.281  | 31.167  | 42.733  | 18.007  | 14.544 | 13.466  | 26.176  | 42.298  |
|    | NT2RM2000250 | 72.366  | 22.586  | 52.512  | 23.631  | 19.076 | 29.100  | 50.616  | 50.848  |
|    | NT2RM2000259 | 90.122  | 33.799  | 39.931  | 17.198  | 9.865  | 44.083  | 74.558  | 29.086  |
|    | NT2RM2000260 | 340.036 | 40.469  | 141.962 | 35.653  | 77.794 | 188.072 | 216.739 | 59.426  |
| 25 | NT2RM2000265 | 24.506  | 4.177   | 38.440  | 1.951   | 3.495  | 14.217  | 14.995  | 14.683  |
|    | NT2RM2000287 | 131.692 | 88.080  | 127.535 | 51.611  | 38.294 | 53.574  | 55.104  | 70.583  |
|    | NT2RM2000306 | 45.342  | 24.950  | 44.593  | 13.884  | 40.471 | 40.133  | 22.666  | 33.254  |
|    | NT2RM2000312 | 13.383  | 57.043  | 78.915  | 13.258  | 60.055 | 90.975  | 183.675 | 38.391  |
|    | NT2RM2000322 | 33.318  | 18.077  | 22.354  | 11.030  | 6.002  | 8.829   | 16.962  | 15.344  |
|    | NT2RM2000343 | 70.618  | 78.514  | 302.242 | 43.179  | 64.338 | 35.838  | 84.150  | 77.161  |
| 30 | NT2RM2000359 | 79.203  | 25.437  | 34.945  | 19.556  | 16.348 | 47.922  | 31.041  | 20.663  |
|    | NT2RM2000362 | 138.367 | 75.052  | 100.195 | 73.363  | 49.276 | 128.683 | 126.847 | 106.528 |
|    | NT2RM2000363 | 41.249  | 17.128  | 40.363  | 12.316  | 18.047 | 6.982   | 11.907  | 9.239   |
|    | NT2RM2000368 | 225.366 | 121.451 | 100.718 | 49.727  | 89.663 | 128.354 | 136.054 | 93.203  |
|    | NT2RM2000371 | 88.897  | 208.325 | 97.848  | 212.525 | 33.081 | 80.287  | 140.890 | 131.756 |
|    | NT2RM2000374 | 54.398  | 55.656  | 153.004 | 34.316  | 25.750 | 36.072  | 34.151  | 51.955  |
| 35 | NT2RM2000387 | 31.537  | 35.012  | 44.269  | 24.245  | 23.611 | 19.094  | 24.288  | 26.745  |
|    | NT2RM2000393 | 43.873  | 18.662  | 32.917  | 12.496  | 14.167 | 17.560  | 23.452  | 33.102  |
|    | NT2RM2000395 | 11.936  | 2.901   | 3.145   | 1.722   | 4.564  | 6.102   | 4.725   | 9.257   |
|    | NT2RM2000402 | 26.540  | 28.616  | 42.681  | 18.209  | 10.970 | 24.876  | 20.077  | 26.993  |
|    | NT2RM2000405 | 29.390  | 26.302  | 56.236  | 18.391  | 18.624 | 17.673  | 19.408  | 19.435  |
|    | NT2RM2000407 | 213.973 | 77.583  | 145.459 | 42.798  | 73.678 | 124.360 | 103.989 | 122.635 |
| 40 | NT2RM2000410 | 46.375  | 23.782  | 29.096  | 10.711  | 13.331 | 26.855  | 27.992  | 20.820  |
|    | NT2RM2000420 | 41.781  | 29.100  | 39.676  | 24.872  | 16.605 | 26.730  | 29.136  | 43.708  |
|    | NT2RM2000422 | 400.274 | 145.824 | 265.042 | 51.828  | 73.571 | 186.812 | 131.563 | 125.088 |
|    | NT2RM2000423 | 119.707 | 56.563  | 272.757 | 58.213  | 50.981 | 60.353  | 42.529  | 86.903  |
|    | NT2RM2000452 | 44.543  | 24.735  | 36.727  | 13.780  | 10.160 | 32.134  | 23.468  | 26.716  |
|    | NT2RM2000469 | 28.062  | 19.762  | 14.685  | 5.603   | 7.485  | 22.242  | 10.716  | 6.249   |
| 45 | NT2RM2000490 | 57.984  | 29.556  | 42.743  | 16.403  | 19.316 | 36.503  | 21.106  | 31.221  |
|    | NT2RM2000497 | 44.862  | 39.965  | 107.651 | 23.488  | 15.277 | 19.316  | 13.374  | 16.412  |
|    | NT2RM2000502 | 49.184  | 33.683  | 39.515  | 14.256  | 18.792 | 23.598  | 23.921  | 27.778  |
|    | NT2RM2000504 | 53.653  | 30.376  | 46.453  | 19.836  | 22.267 | 39.106  | 28.508  | 19.188  |
|    | NT2RM2000514 | 40.702  | 23.938  | 23.980  | 9.704   | 12.601 | 20.319  | 19.147  | 27.441  |
|    | NT2RM2000522 | 6.782   | 0.000   | 4.730   | 3.680   | 1.616  | 2.008   | 4.021   | 14.506  |
|    | NT2RM2000540 | 28.543  | 24.938  | 24.326  | 8.984   | 9.799  | 16.595  | 10.471  | 17.045  |
| 50 | NT2RM2000556 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000  | 0.000   | 0.000   | 0.000   |
|    | NT2RM2000565 | 52.454  | 32.231  | 48.697  | 17.373  | 14.758 | 42.730  | 24.240  | 28.218  |
|    | NT2RM2000566 | 31.997  | 22.486  | 34.598  | 11.793  | 7.665  | 32.508  | 18.105  | 35.032  |
|    | NT2RM2000567 | 57.110  | 29.153  | 45.058  | 10.738  | 15.606 | 44.727  | 22.394  | 28.766  |
|    | NT2RM2000569 | 113.652 | 91.632  | 187.867 | 40.645  | 36.420 | 58.576  | 40.151  | 50.117  |
|    | NT2RM2000577 | 61.308  | 16.114  | 35.195  | 12.694  | 14.986 | 83.608  | 36.221  | 60.695  |
| 55 | NT2RM2000581 | 152.797 | 45.271  | 66.363  | 20.096  | 32.397 | 79.582  | 62.192  | 40.676  |

Table 66

|    |              |         |         |         |         |         |         |         |         |
|----|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
|    | NT2RM2000582 | 96.163  | 83.789  | 104.868 | 37.893  | 45.777  | 67.766  | 50.428  | 50.631  |
|    | NT2RM2000588 | 109.847 | 89.480  | 119.521 | 70.534  | 32.168  | 143.491 | 88.984  | 95.908  |
| 5  | NT2RM2000589 | 91.130  | 45.398  | 66.143  | 21.774  | 22.548  | 80.656  | 43.864  | 35.379  |
|    | NT2RM2000594 | 31.068  | 22.138  | 28.684  | 10.809  | 13.325  | 34.179  | 10.310  | 16.391  |
|    | NT2RM2000599 | 275.423 | 132.063 | 221.911 | 86.738  | 66.363  | 237.294 | 209.381 | 119.304 |
|    | NT2RM2000609 | 26.687  | 13.378  | 20.025  | 9.729   | 14.321  | 19.395  | 17.956  | 8.545   |
|    | NT2RM2000612 | 40.704  | 19.012  | 36.338  | 9.471   | 15.531  | 27.049  | 24.872  | 30.269  |
|    | NT2RM2000622 | 45.492  | 46.307  | 46.012  | 27.097  | 17.426  | 48.495  | 30.090  | 42.927  |
| 10 | NT2RM2000623 | 279.041 | 219.374 | 245.200 | 90.410  | 123.723 | 286.194 | 221.925 | 144.950 |
|    | NT2RM2000624 | 52.551  | 88.174  | 87.665  | 60.273  | 35.044  | 29.084  | 27.783  | 54.409  |
|    | NT2RM2000632 | 15.461  | 13.673  | 11.853  | 13.378  | 8.044   | 7.114   | 6.910   | 5.808   |
|    | NT2RM2000635 | 24.726  | 21.442  | 42.243  | 17.900  | 14.353  | 23.119  | 10.306  | 20.675  |
|    | NT2RM2000636 | 45.247  | 47.662  | 62.828  | 24.460  | 33.311  | 28.868  | 35.751  | 35.343  |
|    | NT2RM2000639 | 34.707  | 19.290  | 26.594  | 15.919  | 12.875  | 28.297  | 20.526  | 11.317  |
| 15 | NT2RM2000649 | 39.662  | 37.102  | 62.088  | 31.152  | 32.252  | 42.335  | 27.796  | 50.424  |
|    | NT2RM2000658 | 53.598  | 26.723  | 55.360  | 19.176  | 26.348  | 46.815  | 23.949  | 20.812  |
|    | NT2RM2000660 | 84.441  | 62.193  | 66.364  | 13.329  | 36.417  | 48.267  | 23.694  | 40.215  |
|    | NT2RM2000669 | 17.352  | 23.877  | 38.180  | 11.181  | 16.885  | 17.594  | 13.008  | 20.479  |
|    | NT2RM2000689 | 118.126 | 102.565 | 102.237 | 102.435 | 37.057  | 156.147 | 96.539  | 140.413 |
|    | NT2RM2000691 | 29.467  | 12.787  | 29.631  | 9.783   | 15.294  | 28.392  | 15.401  | 17.161  |
| 20 | NT2RM2000714 | 238.396 | 61.067  | 122.264 | 38.290  | 60.785  | 222.914 | 188.827 | 77.434  |
|    | NT2RM2000718 | 9.515   | 10.199  | 19.686  | 5.036   | 7.922   | 8.962   | 7.572   | 22.010  |
|    | NT2RM2000732 | 44.022  | 24.869  | 42.915  | 12.209  | 29.863  | 38.537  | 30.201  | 17.415  |
|    | NT2RM2000735 | 112.208 | 47.966  | 111.282 | 57.228  | 38.980  | 78.590  | 45.888  | 59.237  |
|    | NT2RM2000740 | 23.990  | 62.438  | 143.286 | 24.030  | 26.159  | 35.449  | 22.001  | 29.845  |
|    | NT2RM2000743 | 15.424  | 14.901  | 23.591  | 12.391  | 9.779   | 16.339  | 8.950   | 8.560   |
| 25 | NT2RM2000772 | 79.885  | 34.020  | 54.908  | 31.068  | 31.256  | 64.893  | 44.735  | 55.557  |
|    | NT2RM2000773 | 56.846  | 36.465  | 77.155  | 26.645  | 32.523  | 60.130  | 42.946  | 53.958  |
|    | NT2RM2000776 | 56.550  | 40.820  | 69.793  | 43.736  | 22.285  | 89.348  | 33.285  | 45.221  |
|    | NT2RM2000784 | 54.586  | 33.888  | 45.181  | 19.559  | 21.292  | 43.103  | 25.540  | 42.124  |
|    | NT2RM2000795 | 169.462 | 132.660 | 456.283 | 117.450 | 94.702  | 91.566  | 59.832  | 91.914  |
|    | NT2RM2000796 | 12.942  | 12.033  | 20.129  | 5.817   | 6.070   | 11.596  | 8.538   | 11.009  |
| 30 | NT2RM2000798 | 67.292  | 147.984 | 71.980  | 42.802  | 43.127  | 85.427  | 63.126  | 132.706 |
|    | NT2RM2000801 | 145.709 | 152.451 | 160.966 | 85.365  | 73.827  | 214.221 | 157.384 | 174.371 |
|    | NT2RM2000821 | 29.716  | 25.994  | 36.976  | 14.293  | 9.638   | 63.476  | 12.133  | 3.427   |
|    | NT2RM2000829 | 77.695  | 36.834  | 148.015 | 32.077  | 69.569  | 70.012  | 26.103  | 73.222  |
|    | NT2RM2000837 | 85.748  | 27.100  | 51.022  | 19.432  | 22.405  | 48.733  | 36.614  | 45.277  |
| 35 | NT2RM2000924 | 41.170  | 22.739  | 31.818  | 6.582   | 16.935  | 130.595 | 55.870  | 42.226  |
|    | NT2RM2000930 | 45.514  | 31.120  | 39.165  | 20.017  | 17.433  | 49.111  | 28.135  | 30.171  |
|    | NT2RM2000937 | 85.092  | 19.912  | 28.613  | 13.728  | 34.425  | 55.176  | 53.959  | 15.755  |
|    | NT2RM2000939 | 63.956  | 41.986  | 59.137  | 18.909  | 23.056  | 57.088  | 26.370  | 29.465  |
|    | NT2RM2000942 | 141.275 | 345.015 | 119.378 | 242.434 | 78.282  | 274.472 | 112.054 | 436.171 |
|    | NT2RM2000951 | 32.383  | 20.717  | 32.763  | 17.041  | 10.179  | 32.704  | 19.494  | 30.498  |
|    | NT2RM2000952 | 33.160  | 18.882  | 34.052  | 15.194  | 27.783  | 44.540  | 16.881  | 31.012  |
| 40 | NT2RM2000966 | 54.007  | 44.546  | 57.551  | 30.397  | 27.965  | 78.353  | 44.947  | 77.916  |
|    | NT2RM2000973 | 96.188  | 97.082  | 100.373 | 31.654  | 38.259  | 115.479 | 60.146  | 151.200 |
|    | NT2RM2000983 | 66.024  | 27.357  | 40.970  | 16.277  | 25.768  | 44.322  | 40.901  | 34.882  |
|    | NT2RM2000984 | 38.635  | 39.635  | 42.628  | 14.734  | 10.729  | 39.002  | 24.661  | 39.000  |
|    | NT2RM2000994 | 38.406  | 43.907  | 36.416  | 29.496  | 24.408  | 22.384  | 18.679  | 31.517  |
|    | NT2RM2001004 | 74.509  | 45.438  | 146.622 | 36.919  | 35.918  | 125.242 | 81.529  | 92.360  |
| 45 | NT2RM2001022 | 195.577 | 346.056 | 350.501 | 243.410 | 179.341 | 419.711 | 214.981 | 540.668 |
|    | NT2RM2001035 | 23.201  | 26.826  | 34.867  | 15.930  | 11.692  | 19.371  | 11.576  | 23.987  |
|    | NT2RM2001038 | 18.846  | 16.860  | 28.577  | 14.251  | 9.432   | 21.182  | 12.726  | 12.544  |
|    | NT2RM2001043 | 31.149  | 17.293  | 22.001  | 11.462  | 11.232  | 18.219  | 25.898  | 31.106  |
|    | NT2RM2001050 | 101.638 | 45.617  | 56.097  | 28.126  | 32.674  | 61.600  | 49.621  | 79.938  |
|    | NT2RM2001055 | 83.075  | 29.856  | 49.927  | 15.739  | 32.251  | 60.461  | 35.926  | 29.242  |
|    | NT2RM2001065 | 21.466  | 21.970  | 40.162  | 20.006  | 27.398  | 26.370  | 15.034  | 14.433  |
| 50 | NT2RM2001075 | 366.658 | 258.334 | 337.690 | 128.945 | 166.931 | 370.161 | 257.064 | 228.430 |
|    | NT2RM2001083 | 230.683 | 79.913  | 107.950 | 30.576  | 63.142  | 203.365 | 79.590  | 24.253  |
|    | NT2RM2001100 | 182.772 | 114.627 | 137.289 | 65.878  | 54.062  | 141.899 | 155.507 | 119.434 |
|    | NT2RM2001105 | 101.949 | 70.116  | 95.624  | 50.863  | 39.812  | 104.272 | 87.573  | 85.122  |
|    | NT2RM2001109 | 48.591  | 27.328  | 30.825  | 11.569  | 12.495  | 53.494  | 34.958  | 45.222  |
| 55 | NT2RM2001110 | 99.871  | 68.967  | 152.982 | 31.616  | 42.715  | 78.028  | 71.894  | 63.509  |
|    | NT2RM2001126 | 57.602  | 33.922  | 47.638  | 18.667  | 20.095  | 52.257  | 42.378  | 28.204  |



Table 67

|    |              |         |         |         |        |        |         |        |         |
|----|--------------|---------|---------|---------|--------|--------|---------|--------|---------|
|    | NT2RM2001131 | 59.454  | 21.547  | 32.934  | 24.063 | 22.706 | 37.676  | 28.873 | 17.418  |
|    | NT2RM2001141 | 116.250 | 82.599  | 275.090 | 51.756 | 53.614 | 85.069  | 47.274 | 83.199  |
| 5  | NT2RM2001152 | 20.261  | 21.814  | 23.297  | 10.506 | 9.194  | 20.068  | 10.068 | 22.007  |
|    | NT2RM2001177 | 44.847  | 43.449  | 52.307  | 26.604 | 19.552 | 41.709  | 26.283 | 55.231  |
|    | NT2RM2001194 | 164.727 | 54.905  | 97.293  | 28.358 | 44.057 | 146.597 | 99.019 | 118.606 |
|    | NT2RM2001195 | 36.939  | 36.245  | 34.818  | 15.750 | 15.727 | 32.602  | 21.861 | 34.274  |
|    | NT2RM2001196 | 125.134 | 23.362  | 52.729  | 15.781 | 26.090 | 77.518  | 62.058 | 31.794  |
| 10 | NT2RM2001201 | 56.981  | 42.504  | 62.447  | 20.139 | 31.351 | 68.607  | 32.835 | 44.422  |
|    | NT2RM2001221 | 65.764  | 32.746  | 40.357  | 19.556 | 25.529 | 40.240  | 33.849 | 36.497  |
|    | NT2RM2001238 | 34.807  | 25.200  | 33.023  | 13.254 | 14.872 | 43.011  | 20.155 | 18.493  |
|    | NT2RM2001243 | 50.316  | 49.076  | 42.361  | 34.148 | 33.121 | 68.021  | 35.734 | 60.810  |
|    | NT2RM2001244 | 39.082  | 47.756  | 54.069  | 35.242 | 30.728 | 59.908  | 22.778 | 50.393  |
|    | NT2RM2001247 | 138.825 | 184.906 | 146.564 | 65.082 | 57.954 | 94.133  | 78.544 | 136.745 |
|    | NT2RM2001256 | 28.147  | 18.773  | 29.336  | 14.133 | 9.881  | 8.739   | 16.106 | 25.473  |
| 15 | NT2RM2001269 | 21.655  | 19.444  | 36.676  | 14.235 | 17.978 | 11.919  | 14.441 | 17.847  |
|    | NT2RM2001278 | 105.133 | 67.683  | 225.135 | 41.243 | 42.803 | 61.361  | 51.930 | 64.103  |
|    | NT2RM2001291 | 21.264  | 19.798  | 31.162  | 8.619  | 11.535 | 15.945  | 16.243 | 12.482  |
|    | NT2RM2001294 | 60.754  | 44.696  | 66.102  | 25.820 | 20.715 | 42.950  | 28.321 | 33.134  |
|    | NT2RM2001295 | 43.856  | 35.189  | 40.675  | 10.220 | 16.301 | 35.694  | 20.908 | 35.879  |
| 20 | NT2RM2001302 | 30.816  | 16.802  | 26.058  | 10.228 | 12.245 | 25.513  | 14.404 | 12.416  |
|    | NT2RM2001306 | 11.584  | 52.176  | 16.722  | 6.379  | 6.616  | 13.560  | 8.347  | 10.145  |
|    | NT2RM2001312 | 33.361  | 18.866  | 54.572  | 11.148 | 10.119 | 13.848  | 8.526  | 26.714  |
|    | NT2RM2001319 | 13.127  | 22.841  | 23.586  | 17.119 | 10.492 | 18.998  | 4.495  | 36.587  |
|    | NT2RM2001324 | 103.673 | 83.091  | 165.198 | 32.861 | 22.836 | 56.112  | 31.793 | 39.459  |
|    | NT2RM2001345 | 49.634  | 25.168  | 35.284  | 14.837 | 16.900 | 100.618 | 25.540 | 19.919  |
| 25 | NT2RM2001360 | 74.152  | 33.097  | 38.122  | 17.360 | 16.021 | 50.562  | 31.265 | 21.915  |
|    | NT2RM2001370 | 28.821  | 12.859  | 21.986  | 6.327  | 5.734  | 26.406  | 10.631 | 2.394   |
|    | NT2RM2001391 | 16.127  | 5.412   | 27.834  | 4.575  | 4.553  | 14.188  | 3.910  | 9.994   |
|    | NT2RM2001393 | 57.930  | 25.241  | 58.135  | 14.781 | 20.544 | 47.187  | 32.903 | 28.104  |
|    | NT2RM2001420 | 17.272  | 10.676  | 16.079  | 6.774  | 6.751  | 2.717   | 3.157  | 8.464   |
|    | NT2RM2001423 | 17.345  | 9.837   | 15.261  | 12.233 | 6.527  | 15.432  | 10.007 | 10.935  |
|    | NT2RM2001424 | 196.973 | 74.966  | 136.019 | 35.222 | 48.814 | 142.268 | 95.111 | 56.187  |
| 30 | NT2RM2001482 | 265.035 | 123.493 | 274.926 | 59.811 | 62.022 | 227.572 | 99.155 | 72.372  |
|    | NT2RM2001499 | 65.942  | 48.790  | 62.383  | 28.605 | 19.730 | 68.321  | 23.722 | 26.475  |
|    | NT2RM2001504 | 39.282  | 24.742  | 30.958  | 9.395  | 16.991 | 46.880  | 13.034 | 16.709  |
|    | NT2RM2001524 | 24.755  | 14.244  | 24.384  | 9.699  | 10.204 | 16.924  | 9.647  | 14.539  |
|    | NT2RM2001530 | 5.573   | 8.914   | 10.768  | 5.856  | 3.286  | 9.623   | 4.337  | 7.511   |
|    | NT2RM2001533 | 69.137  | 57.026  | 127.055 | 29.970 | 34.159 | 33.371  | 27.483 | 25.268  |
| 35 | NT2RM2001540 | 65.400  | 54.541  | 73.017  | 63.277 | 35.636 | 49.097  | 31.308 | 76.346  |
|    | NT2RM2001544 | 18.067  | 19.624  | 25.228  | 12.549 | 7.049  | 19.380  | 11.033 | 9.485   |
|    | NT2RM2001547 | 22.357  | 25.608  | 19.122  | 11.755 | 13.130 | 14.503  | 12.339 | 10.697  |
|    | NT2RM2001558 | 59.623  | 25.861  | 31.696  | 14.111 | 16.568 | 53.758  | 34.606 | 18.325  |
|    | NT2RM2001575 | 53.128  | 46.425  | 111.368 | 27.392 | 24.257 | 43.005  | 25.405 | 24.423  |
|    | NT2RM2001582 | 59.050  | 42.778  | 132.294 | 24.555 | 24.449 | 28.347  | 22.303 | 22.397  |
| 40 | NT2RM2001588 | 35.342  | 21.815  | 27.343  | 8.806  | 14.132 | 21.498  | 16.451 | 22.464  |
|    | NT2RM2001592 | 19.456  | 18.542  | 28.436  | 10.182 | 12.538 | 15.234  | 15.478 | 15.460  |
|    | NT2RM2001603 | 42.456  | 15.253  | 41.037  | 12.377 | 16.738 | 23.117  | 21.517 | 12.277  |
|    | NT2RM2001605 | 60.434  | 36.233  | 43.204  | 13.580 | 20.116 | 41.260  | 20.117 | 15.459  |
|    | NT2RM2001611 | 54.771  | 39.056  | 128.984 | 17.180 | 24.100 | 40.047  | 19.191 | 16.136  |
|    | NT2RM2001613 | 39.500  | 22.894  | 27.579  | 12.321 | 11.577 | 26.696  | 21.149 | 24.773  |
| 45 | NT2RM2001626 | 202.358 | 40.774  | 93.458  | 19.731 | 45.138 | 168.993 | 96.729 | 42.842  |
|    | NT2RM2001632 | 30.160  | 45.268  | 47.586  | 25.780 | 18.848 | 32.974  | 21.939 | 45.513  |
|    | NT2RM2001633 | 6.521   | 9.885   | 12.546  | 7.571  | 6.017  | 11.226  | 7.294  | 20.798  |
|    | NT2RM2001635 | 188.515 | 41.783  | 101.462 | 30.227 | 41.863 | 115.049 | 88.246 | 58.313  |
|    | NT2RM2001636 | 26.880  | 23.087  | 31.788  | 15.679 | 14.225 | 22.589  | 16.870 | 26.264  |
|    | NT2RM2001637 | 13.020  | 5.524   | 6.631   | 4.897  | 11.170 | 10.700  | 20.526 | 5.331   |
|    | NT2RM2001639 | 71.531  | 28.740  | 32.389  | 12.149 | 15.813 | 54.897  | 28.931 | 13.443  |
| 50 | NT2RM2001641 | 39.297  | 32.462  | 49.334  | 14.630 | 22.002 | 30.556  | 21.763 | 16.776  |
|    | NT2RM2001643 | 25.535  | 12.621  | 15.764  | 6.658  | 12.027 | 21.274  | 22.136 | 12.847  |
|    | NT2RM2001648 | 26.584  | 18.351  | 24.507  | 8.310  | 6.636  | 18.218  | 14.277 | 13.561  |
|    | NT2RM2001652 | 18.655  | 15.854  | 22.304  | 6.782  | 9.644  | 25.729  | 7.851  | 20.144  |
|    | NT2RM2001659 | 16.893  | 10.861  | 16.538  | 3.750  | 4.964  | 9.228   | 6.172  | 11.278  |
|    | NT2RM2001660 | 17.414  | 13.987  | 20.619  | 12.709 | 10.544 | 12.482  | 10.671 | 11.244  |
| 55 | NT2RM2001664 | 32.470  | 29.186  | 27.804  | 16.171 | 15.728 | 29.928  | 13.136 | 17.877  |

Table 68

|    |              |          |          |          |         |          |          |          |          |
|----|--------------|----------|----------|----------|---------|----------|----------|----------|----------|
|    | NT2RM2001668 | 89.325   | 61.356   | 52.221   | 32.055  | 34.144   | 88.196   | 46.704   | 35.968   |
|    | NT2RM2001670 | 58.448   | 20.552   | 40.552   | 17.717  | 15.452   | 67.725   | 25.514   | 50.962   |
| 5  | NT2RM2001671 | 31.368   | 15.752   | 21.018   | 19.630  | 8.980    | 62.746   | 15.913   | 35.807   |
|    | NT2RM2001675 | 7.281    | 7.210    | 6.726    | 2.026   | 5.059    | 4.678    | 4.675    | 6.219    |
|    | NT2RM2001681 | 6.784    | 7.472    | 11.234   | 3.584   | 7.454    | 5.095    | 5.298    | 21.547   |
|    | NT2RM2001685 | 28.752   | 21.105   | 22.146   | 9.525   | 9.058    | 19.334   | 21.485   | 26.746   |
|    | NT2RM2001688 | 35.233   | 25.279   | 43.734   | 11.154  | 11.656   | 30.491   | 20.238   | 33.991   |
|    | NT2RM2001695 | 82.068   | 103.403  | 239.543  | 46.305  | 60.347   | 69.201   | 35.903   | 61.706   |
| 10 | NT2RM2001696 | 101.355  | 65.027   | 68.822   | 31.652  | 35.701   | 110.799  | 51.358   | 52.359   |
|    | NT2RM2001698 | 146.791  | 45.033   | 83.099   | 28.886  | 31.134   | 111.891  | 66.042   | 79.232   |
|    | NT2RM2001699 | 24.737   | 20.994   | 25.919   | 13.654  | 8.984    | 19.132   | 14.447   | 42.307   |
|    | NT2RM2001700 | 14.734   | 8.383    | 12.975   | 3.702   | 1.312    | 7.813    | 9.485    | 4.374    |
|    | NT2RM2001704 | 50.393   | 27.867   | 50.059   | 14.943  | 24.129   | 36.190   | 27.006   | 62.522   |
|    | NT2RM2001706 | 75.476   | 62.308   | 144.702  | 48.167  | 41.996   | 55.679   | 28.916   | 57.741   |
| 15 | NT2RM2001714 | 14.876   | 12.916   | 25.654   | 7.345   | 10.946   | 13.341   | 5.670    | 10.957   |
|    | NT2RM2001716 | 294.058  | 99.615   | 122.970  | 48.569  | 68.313   | 188.154  | 109.177  | 48.112   |
|    | NT2RM2001718 | 109.052  | 48.161   | 57.895   | 15.717  | 34.379   | 105.548  | 62.864   | 26.050   |
|    | NT2RM2001723 | 20.352   | 14.923   | 16.575   | 7.233   | 8.937    | 39.809   | 8.807    | 9.491    |
|    | NT2RM2001727 | 57.044   | 41.046   | 46.272   | 22.665  | 16.545   | 51.332   | 33.590   | 46.539   |
|    | NT2RM2001730 | 27.206   | 22.859   | 24.865   | 8.552   | 9.397    | 19.553   | 13.897   | 12.427   |
| 20 | NT2RM2001738 | 25.036   | 6.229    | 18.054   | 7.967   | 10.452   | 22.532   | 14.238   | 26.610   |
|    | NT2RM2001743 | 31.219   | 15.575   | 27.495   | 8.999   | 13.856   | 19.966   | 21.123   | 40.203   |
|    | NT2RM2001753 | 41.699   | 57.379   | 66.833   | 29.155  | 36.474   | 48.608   | 37.342   | 50.583   |
|    | NT2RM2001755 | 102.308  | 95.543   | 95.880   | 48.800  | 50.926   | 85.016   | 46.946   | 58.535   |
|    | NT2RM2001760 | 36.852   | 29.592   | 43.280   | 11.529  | 16.235   | 41.973   | 21.095   | 36.897   |
|    | NT2RM2001765 | 17.310   | 22.525   | 20.809   | 5.472   | 6.161    | 36.420   | 11.083   | 21.129   |
| 25 | NT2RM2001767 | 507.383  | 198.624  | 244.752  | 82.225  | 86.662   | 313.630  | 261.579  | 156.449  |
|    | NT2RM2001768 | 14.334   | 16.852   | 22.405   | 14.516  | 7.327    | 13.653   | 4.371    | 27.736   |
|    | NT2RM2001771 | 33.884   | 31.815   | 59.888   | 20.959  | 19.261   | 40.662   | 26.114   | 70.587   |
|    | NT2RM2001778 | 14.653   | 9.177    | 12.741   | 0.999   | 6.577    | 9.552    | 8.651    | 6.525    |
|    | NT2RM2001782 | 49.540   | 17.667   | 39.944   | 11.809  | 19.235   | 60.433   | 38.302   | 42.078   |
|    | NT2RM2001784 | 31.529   | 23.807   | 34.905   | 9.620   | 16.512   | 26.774   | 14.749   | 17.008   |
| 30 | NT2RM2001785 | 73.444   | 32.799   | 54.722   | 14.868  | 28.332   | 74.431   | 52.678   | 40.155   |
|    | NT2RM2001792 | 82.550   | 48.689   | 54.661   | 13.880  | 26.470   | 67.309   | 56.934   | 51.170   |
|    | NT2RM2001795 | 130.534  | 65.803   | 79.887   | 22.935  | 40.781   | 108.971  | 66.672   | 68.900   |
|    | NT2RM2001797 | 17.770   | 23.911   | 46.302   | 31.918  | 15.965   | 38.330   | 15.267   | 61.440   |
|    | NT2RM2001800 | 32.076   | 15.750   | 32.039   | 9.323   | 10.196   | 25.569   | 24.848   | 32.579   |
|    | NT2RM2001803 | 18.883   | 19.806   | 27.862   | 15.915  | 15.790   | 17.317   | 12.178   | 25.827   |
| 35 | NT2RM2001805 | 10.973   | 6.105    | 12.362   | 3.395   | 7.748    | 17.242   | 7.464    | 10.576   |
|    | NT2RM2001806 | 41.604   | 28.683   | 30.345   | 12.360  | 14.554   | 35.269   | 18.192   | 22.416   |
|    | NT2RM2001813 | 11.155   | 10.752   | 12.187   | 5.926   | 6.671    | 17.463   | 7.004    | 10.764   |
|    | NT2RM2001814 | 16.422   | 18.276   | 19.059   | 5.168   | 10.179   | 14.993   | 12.571   | 9.506    |
|    | NT2RM2001818 | 37.340   | 15.047   | 25.378   | 7.050   | 13.614   | 28.082   | 23.903   | 16.747   |
|    | NT2RM2001823 | 13.814   | 13.268   | 12.712   | 4.562   | 7.791    | 10.847   | 8.727    | 7.819    |
| 40 | NT2RM2001825 | 27.524   | 37.936   | 22.505   | 15.145  | 17.486   | 21.050   | 17.161   | 33.945   |
|    | NT2RM2001832 | 68.657   | 29.677   | 30.202   | 9.749   | 22.522   | 37.241   | 30.727   | 18.205   |
|    | NT2RM2001839 | 53.715   | 31.908   | 39.273   | 13.944  | 12.144   | 27.291   | 25.952   | 18.816   |
|    | NT2RM2001840 | 108.411  | 98.429   | 259.021  | 48.048  | 32.857   | 58.314   | 28.523   | 37.338   |
|    | NT2RM2001851 | 52.202   | 39.752   | 63.088   | 24.308  | 18.778   | 32.821   | 26.626   | 85.666   |
|    | NT2RM2001855 | 33.026   | 24.176   | 29.953   | 16.912  | 19.394   | 23.562   | 31.355   | 25.910   |
| 45 | NT2RM2001867 | 30.838   | 22.957   | 35.457   | 14.948  | 16.183   | 32.799   | 17.562   | 46.800   |
|    | NT2RM2001869 | 129.599  | 162.083  | 180.222  | 173.694 | 64.737   | 231.277  | 145.176  | 147.129  |
|    | NT2RM2001879 | 14.477   | 14.016   | 20.104   | 6.241   | 7.997    | 18.463   | 6.634    | 17.934   |
|    | NT2RM2001883 | 42.649   | 14.914   | 59.041   | 11.657  | 28.809   | 14.670   | 17.172   | 5.396    |
|    | NT2RM2001886 | 31.621   | 19.917   | 31.650   | 19.861  | 14.683   | 19.396   | 24.619   | 18.912   |
|    | NT2RM2001887 | 19.995   | 18.787   | 31.384   | 9.308   | 6.192    | 7.945    | 11.032   | 6.537    |
| 50 | NT2RM2001896 | 5201.332 | 1475.462 | 2605.875 | 738.729 | 3013.651 | 6911.225 | 5347.627 | 1306.593 |
|    | NT2RM2001902 | 9.512    | 5.176    | 9.030    | 3.230   | 3.539    | 7.418    | 7.583    | 3.383    |
|    | NT2RM2001903 | 63.243   | 40.127   | 55.162   | 28.793  | 22.732   | 77.356   | 28.595   | 48.438   |
|    | NT2RM2001930 | 108.255  | 64.649   | 109.195  | 31.339  | 39.123   | 80.005   | 62.289   | 59.426   |
|    | NT2RM2001935 | 36.519   | 23.148   | 18.415   | 4.134   | 11.165   | 15.562   | 19.141   | 10.042   |
|    | NT2RM2001936 | 78.536   | 47.939   | 51.879   | 18.980  | 21.013   | 48.576   | 35.554   | 52.419   |
|    | NT2RM2001939 | 23.961   | 5.651    | 21.192   | 6.301   | 5.377    | 17.197   | 7.025    | 5.482    |
| 55 | NT2RM2001941 | 71.450   | 49.630   | 78.923   | 19.738  | 22.274   | 54.128   | 31.260   | 34.949   |

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